Med Label Printer Install Guide

Contains Installation instructions for the Omni Rx and PC Box Console

67-2111 Rev A

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Table of Contents

Install the Med Label Printer on a PC Box Console 1-1

Introduction 1-1
Tools Required. 1-1
Prepare the Printer Bay 1-1
Upgrade the Receipt Printer 1-7
Prepare the Printer Area 1-14
Add the New Label Printer 1-17
Button up the Printer Bay 1-21
Check the Configurations 1-23

Install a Med Label Printer on an OmniRx 2-1

Tools List 2-1
Prepare the Printer Bay 2-1
Remove the Keyboard 2-4
Remove the Receipt Printer 2-7
Remove the Printer Bezel 2-7
Route the Printer USB Cable 2-10
Prepare the Med Label Printer for Install 2-11
Install the Med label Printer 2-16
Mount the Med Label Printer onto the Printer Bezel 2-19
Test the Med Label Printer 2-21
Replace the Removed Pieces 2-22
Test the Printer 2-26
Replace OmniRx Pieces 2-27
Replace the G4 OmniRx Lid 2-27
Replace the Keyboard 2-28

Documentation Feedback FB-1

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Install the Med Label Printer on a PC Box Console

Introduction

Tools Required

- Torx T10 driver
- Torx T8 driver
- 5.5mm Nut driver

Prepare the Printer Bay

1. Perform a graceful shutdown of the console.
2. Open the console door.
3. Pull the release lever forward and pull the receipt paper from the printer.
4. Remove the paper from its holder.

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5. Remove the filter access door.

Figure 1-1. Remove the filter access panel

Domestic built PC Box consoles only have one set of mounting holes and need an adapter plate (53-1214).

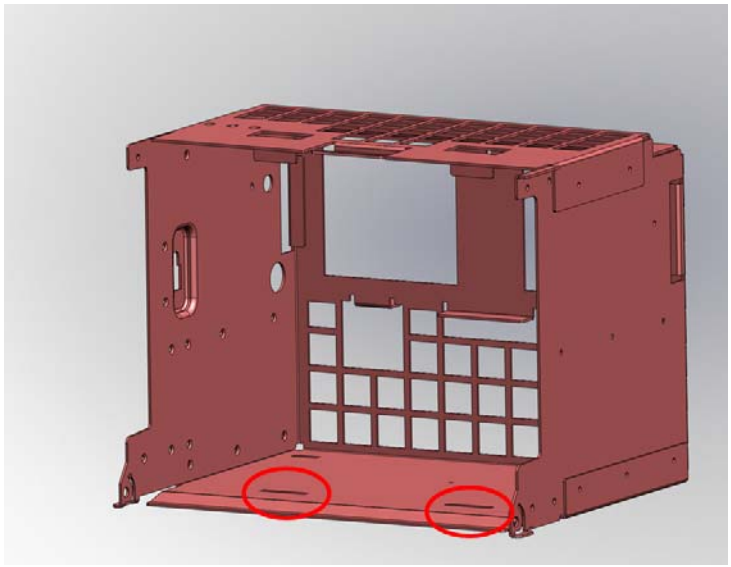

Figure 1-2. Domestic printer bay with one set of mounting holes

PC Box Consoles built in China (53-1218) will have two sets of mounting holes. The paper roll holder could be mounted in the front or the back set, depending on revision level. If the printer bay has two sets of mounting holes as shown in Figure 1-3 and the paper roll holder is mounted in the rear-most set of mounting holes, skip to the first step of "Upgrade the Receipt Printer" on page 1-7.

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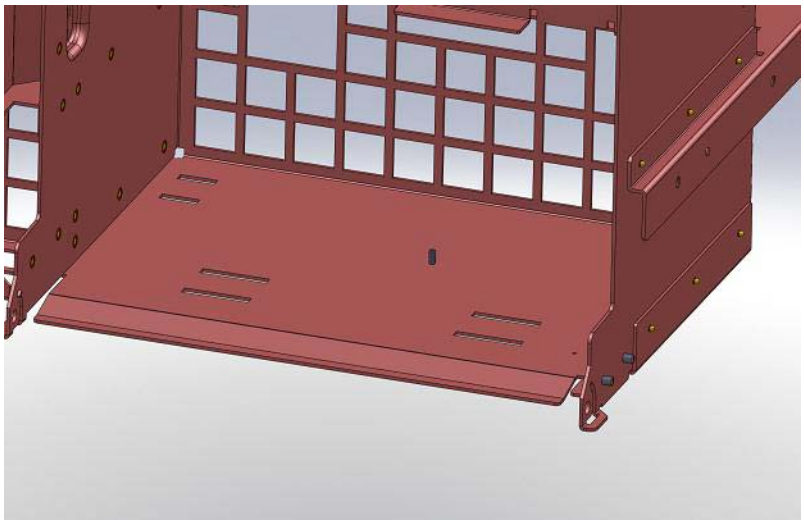

Figure 1-3. Off-shore printer bay with two sets of mounting holes

6. Gently push back on the front of the paper roll holder and lift the front of the holder from its mounting holes.

Figure 1-4. Lift the front of the paper roll holder out from its mounting holes

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7. Lift the paper roll holder and remove it from the printer bay.

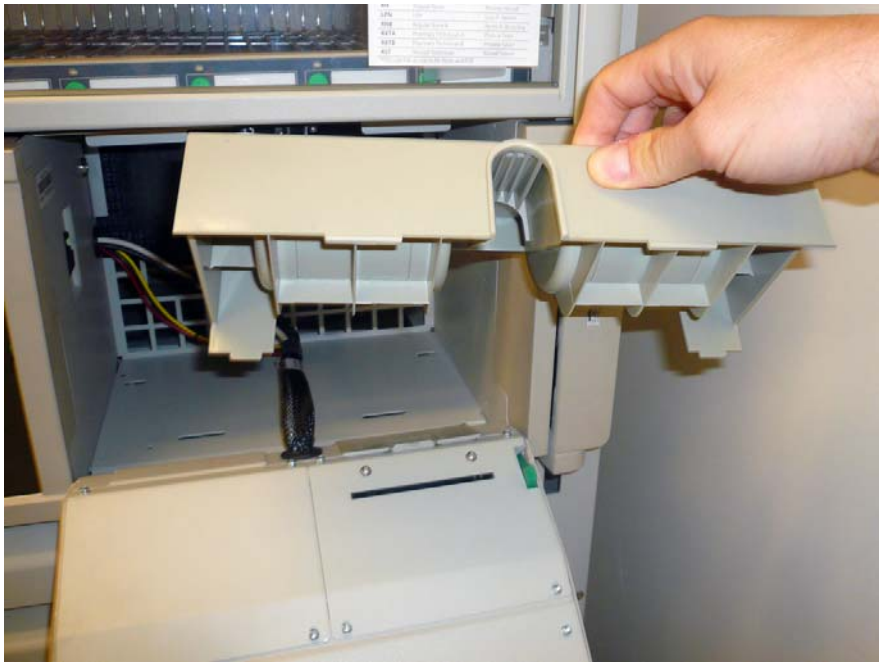

Figure 1-5. Remove the paper roll holder from the printer bay

8. Remove the nut or the nylon cable clamp that secures the ground cable to the bottom of the printer bay and remove the ground cable. Use a 5.5 mm or 7/32" nut driver to remove the nut.

Figure 1-6. Remove the ground cable

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9. Get the new adapter plate (53-1214) and remove the adhesive backs to expose the adhesive tape.

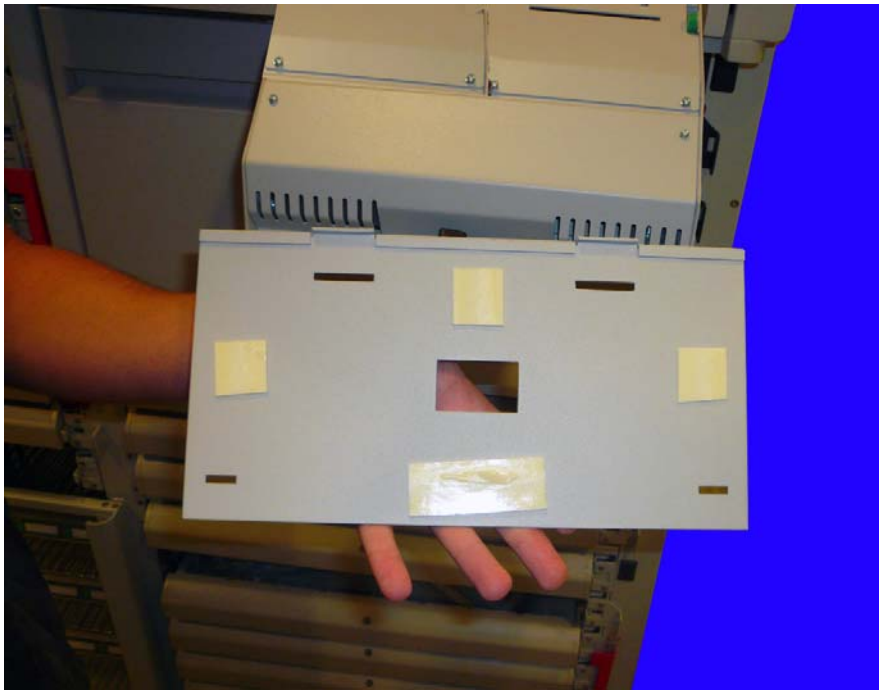

Figure 1-7. Remove the backing from the adhesive tape on the new adapter plate

10. Slip the two tabs on the plate into the mounting holes nearest the front of the printer bay.

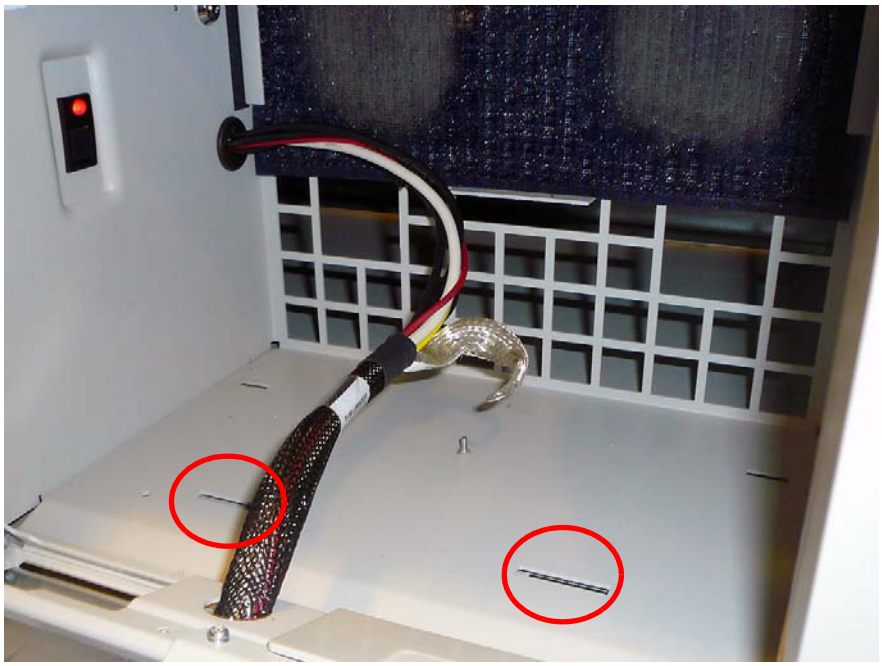

Figure 1-8. Place the adapter plate tabs into the mounting holes

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11. Place the new adapter plate into place in the printer bay.

Figure 1-9. Add the adapter plate

12. Press down on the adapter plate to ensure it is secure in the bay.
13. Replace the ground or nylon cable clamp. Secure the nut using the 5.5 mm or 7/32" nut driver.

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14. Place the new paper roll holder into the printer bay. Ensure the tabs on the bottom of the paper roll holder are set into the mounting holes at the rear of the printer bay first and then the front tabs are set into place.

Figure 1-10. Mount the new paper roll holder into the adapter plate

15. Add the new filter access door (53-1215).

Upgrade the Receipt Printer

Before continuing with the install of the med label printer, the receipt printer must be upgraded with new parts to reduce electrostatic discharge (ESD) possibilities.

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1. Remove the printer access door from the receipt printer.

Center Paper Within This Area
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.

Figure 1-11. Remove the printer access door.

2. Remove the four screws that secure the rear cover of the receipt printer. Use a Torx T10 driver.

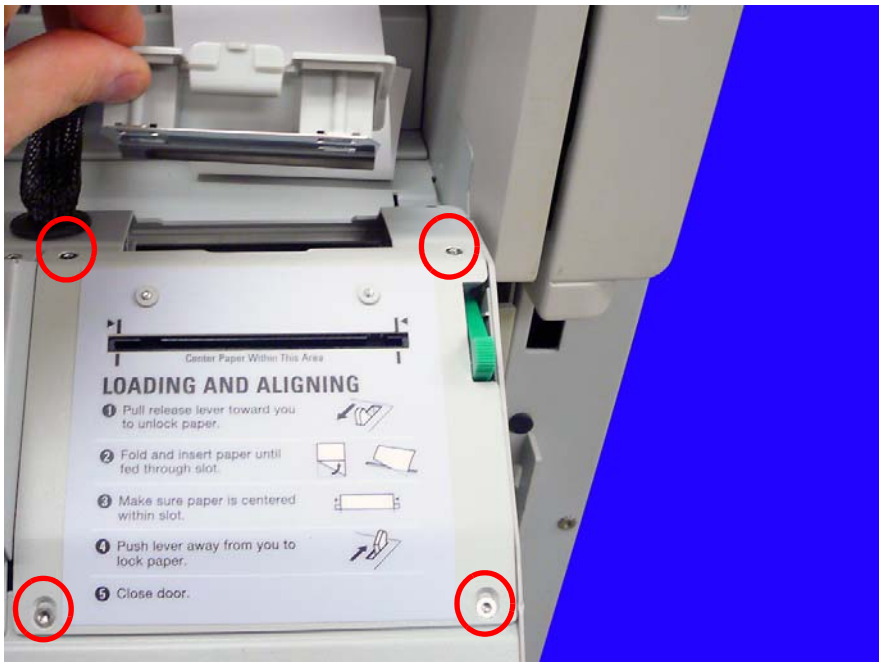
Center Paper Within This Area
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.

Figure 1-12. Remove the four screws that secure the printer cover

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3. Lift the receipt printer from the printer door.

Important: The receipt printer is connected to the hub board via the power and USB cables. Do not attempt to pull the receipt printer too far away from the console as it may damage the printer or the console.

Figure 1-13. Lift the receipt printer from the door

4. Turn the printer face up and set the printer assembly back down on the printer door assembly.

Figure 1-14. Set the receipt printer down on the printer access door

5. Loosen, but do not remove, the two screws that secure the middle paper guide to the receipt printer. Use a Torx T8 driver.

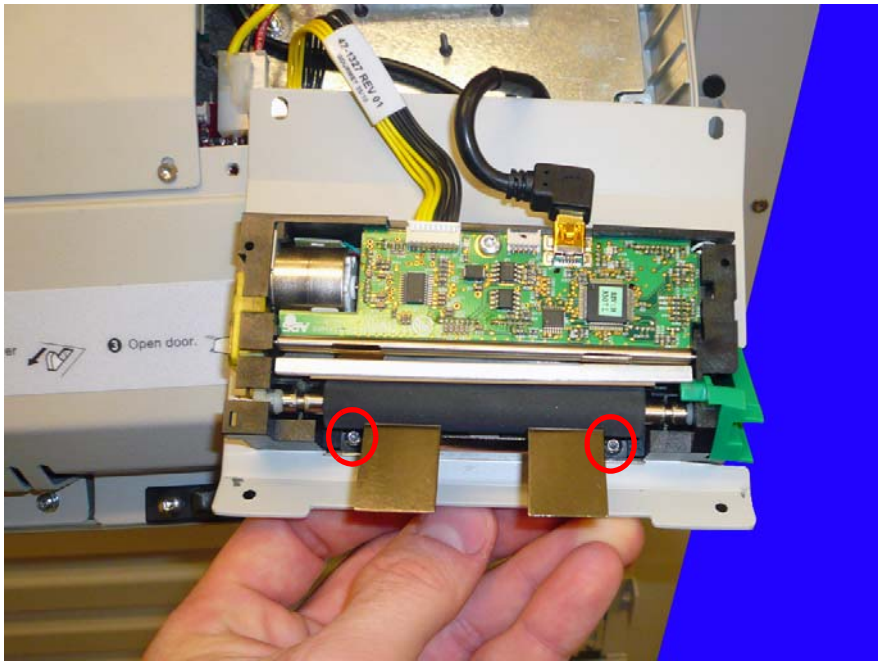

Figure 1-15. Remove the two screws that secure the middle printer bracket

6. Remove the bottom paper guide from the receipt printer.

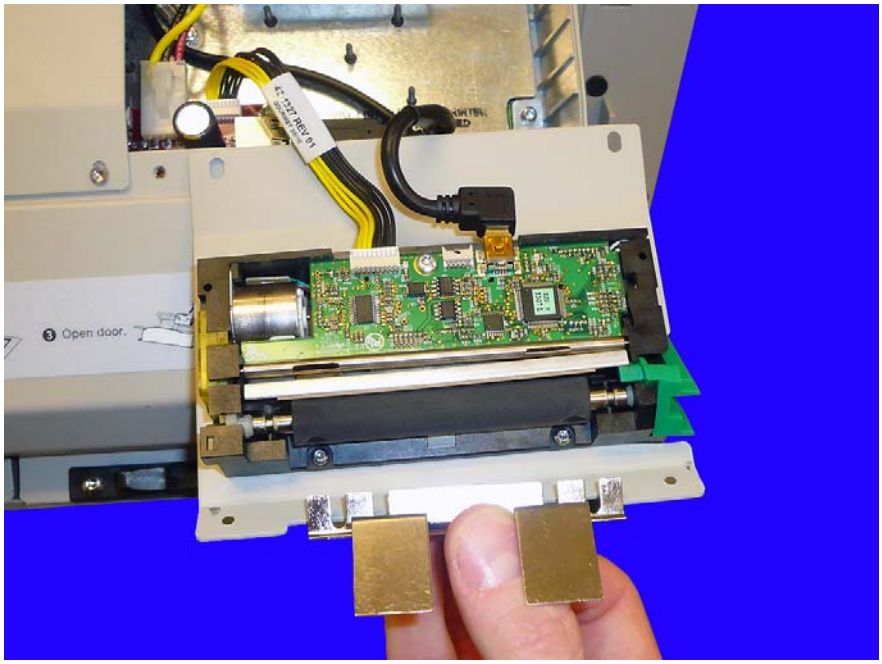

Figure 1-16. Remove the middle bracket on the receipt printer

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7. Place the new paper guide with ground cable (15-1050) into place on the receipt printer.

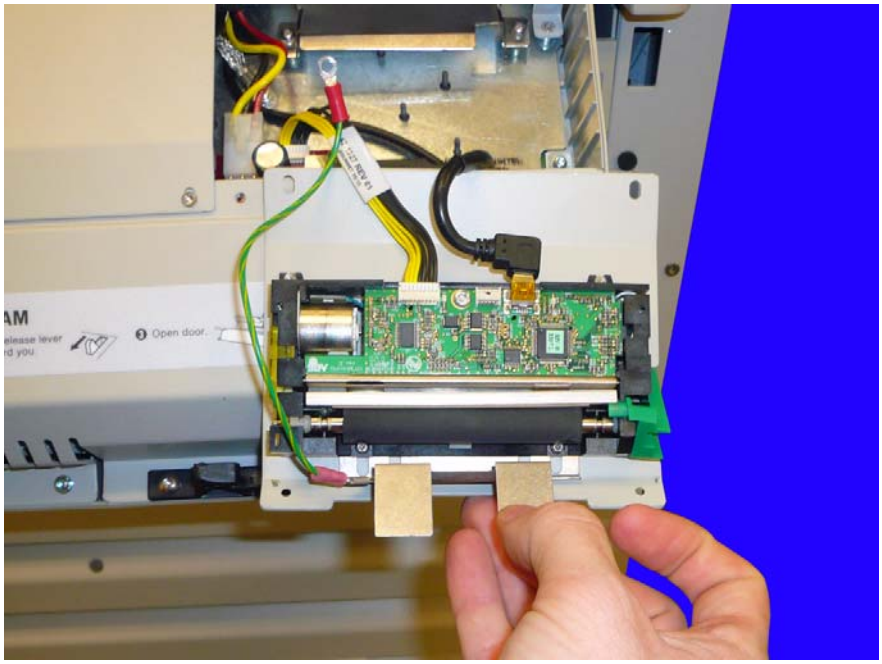

Figure 1-17. Add the new middle printer bracket

8. Tighten the two screws that secure the middle paper guide to the receipt printer. Use a Torx T8 driver.
9. Remove the ground nut in the printer bay. Use a 5.5 mm nut driver.

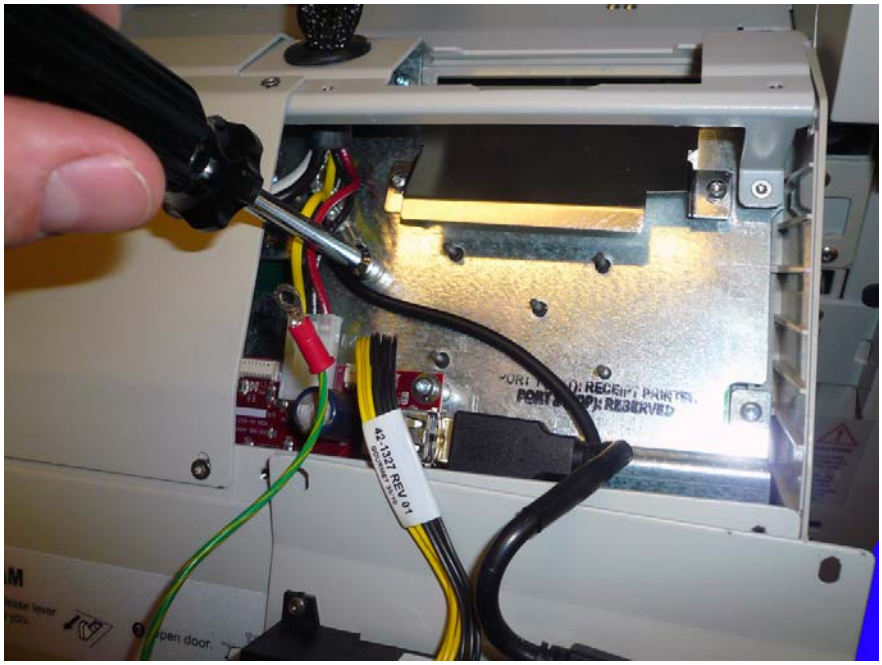

Figure 1-18. Remove the ground nut in the printer bay

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10. Place the receipt printer ground cable onto the grounding bolt and replace the nut.

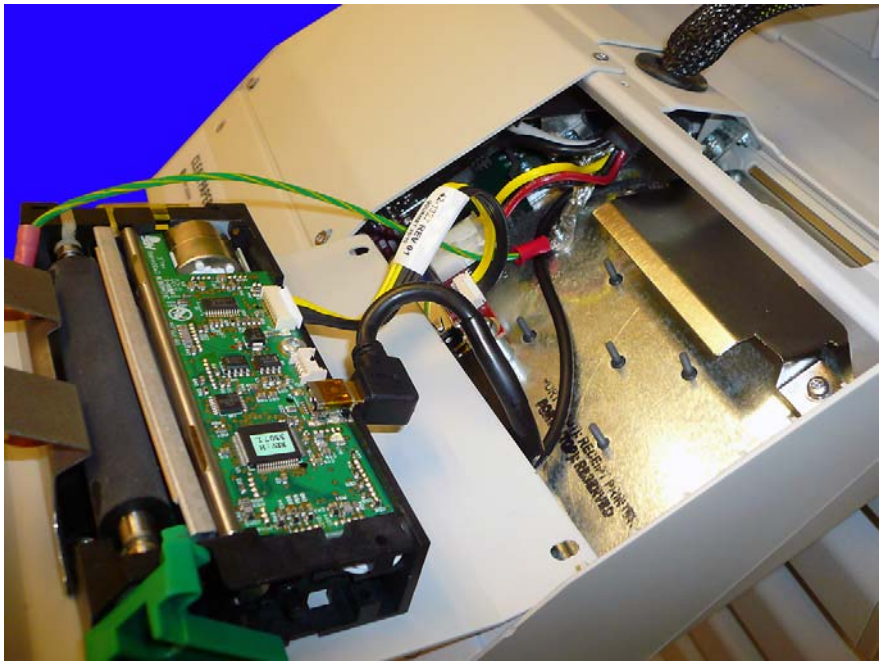

Figure 1-19. Ground the printer to the console

11. Replace the printer ensuring that the new ground cable does not get pinched between the printer cover and the door assembly.

Figure 1-20. Replace the printer

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12. Secure the two screws closest to the PC Box Console first, as they align the printer guide. Use a Torx T10 driver.

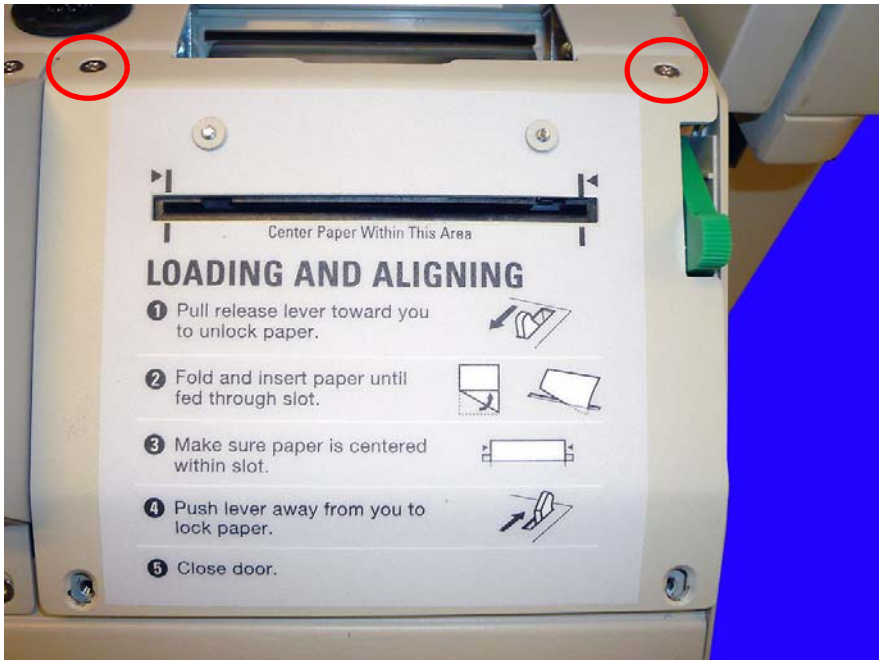
Center Paper Within This Area
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.

Figure 1-21. Replace the top two screws first

13. Secure the bottom two screws next.

Center Paper Within This Area
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.

Figure 1-22. Replace the bottom screws last

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14. Replace the printer access door.

Center Paper Within This Area
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.

Figure 1-23. Replace the printer access door

Prepare the Printer Area

1. Remove the six screws (94-7721-06) that secure the rear cover on the console door. Use a Torx T10 driver.

Figure 1-24. Remove the screws that secure the rear cover

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2. Remove the rear cover.

Figure 1-25. Remove the rear cover

3. Replace the two rear-most screws.

Caution: Use a ground strap and ensure that the strap is grounded to the cabinet before proceeding.

4. To avoid the possibility of shorting out the keyboard PCB, disconnect power to the keyboard PCB by unplugging the power cable from J1 on the hub board.

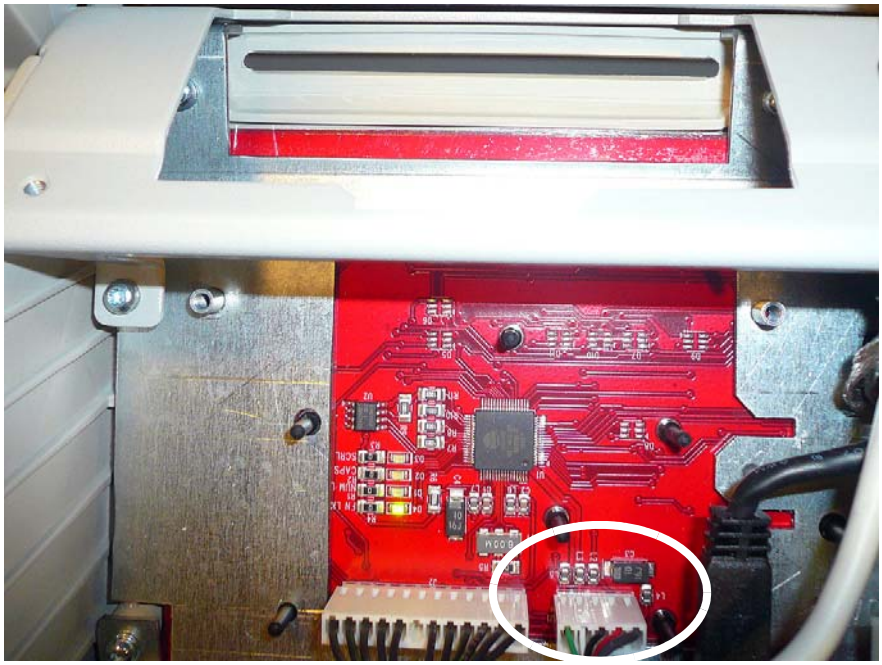

Figure 1-26. Disconnect the keyboard power

5. Set the upper paper guide (15-2050) on top of the standoffs in the printer area.

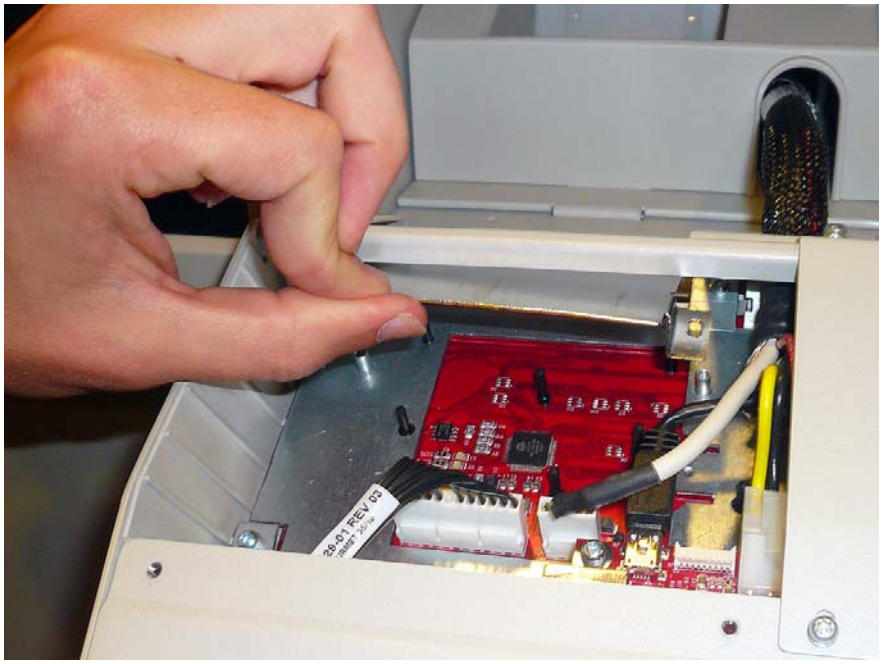

Figure 1-27. Set the upper paper guide into place

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6. Secure the upper paper guide with the two screws provided. Use a Torx T10 driver.

Note: Do not fully tighten these screws as the upper paper guide may need to be adjusted.

Important: Before fully tightening the upper paper guide, ensure that the leading edge of the paper guide is flush with the front of the bezel opening, evenly installed and tight against the upper lip of the opening. It may take multiple alignment attempts before the proper alignment is reached.

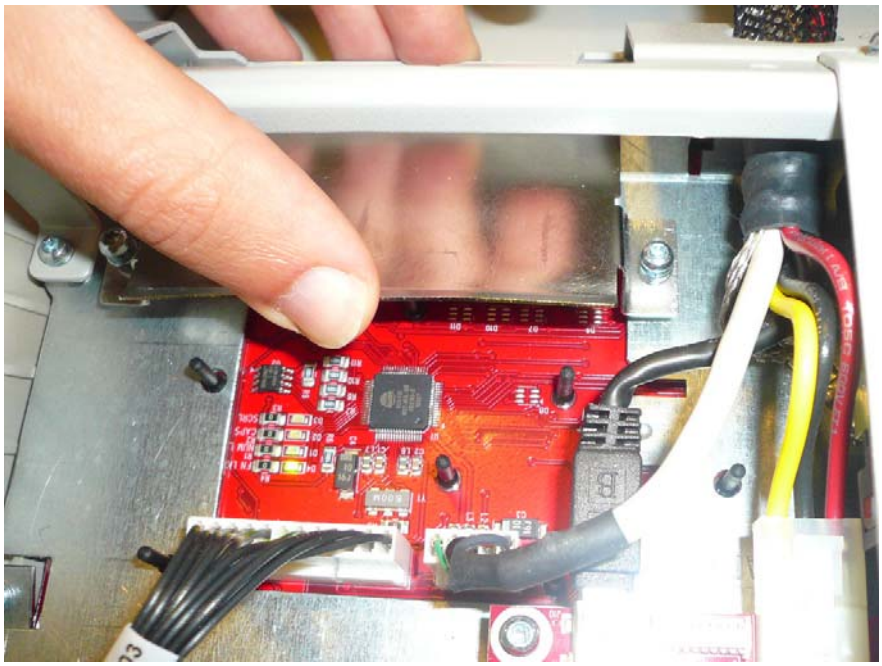

Figure 1-28. Secure the upper paper guide to the standoffs

Add the New Label Printer

1. Reconnect the keyboard power cable.

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2. Hold the label printer assembly over the opening in the console door.

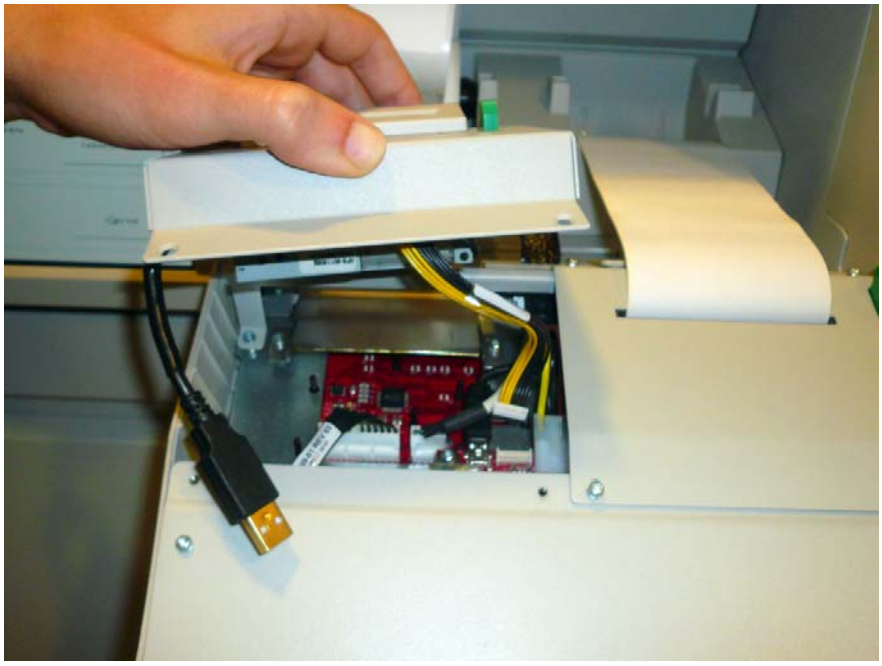

Figure 1-29. Set the label printer assembly in place

3. Connect the power cable to J9 on the hub board. Note the color orientation in Figure 1-30.

Important: When connecting the power cable, it is important to avoid seating the connector by pushing on the wires. Pushing on the wires will damage the crimps. Ensure that you seat the connector by pushing on the connector body itself, and not the wires.

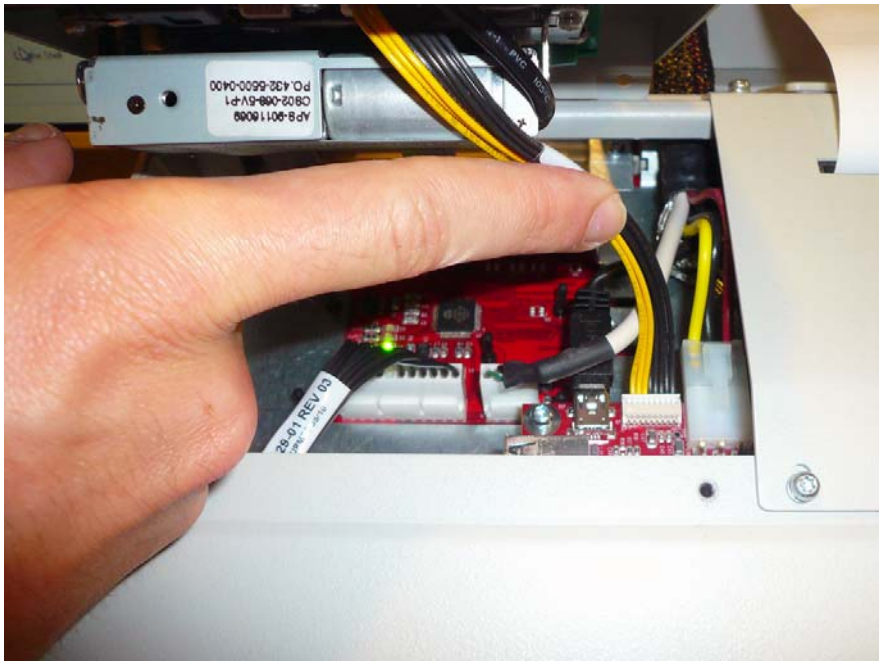

Figure 1-30. Connect the power cable

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4. Connect the USB cable to the bottom USB connector on the hub board.

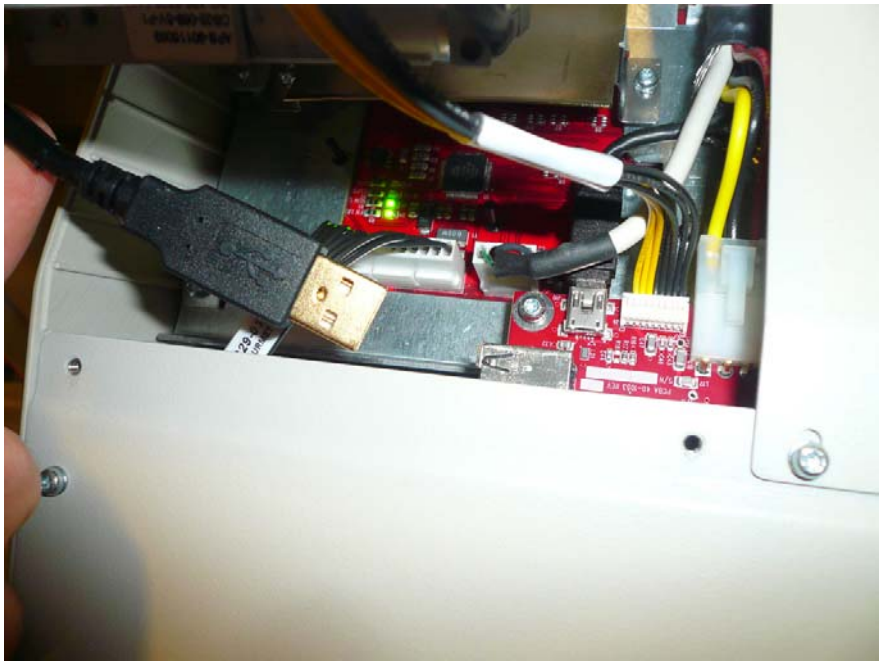

Figure 1-31. Connect the USB cable

5. Set the label printer assembly into place on the console door and insert the four screws (94-7721-06) that secure the printer to the door.

Important: Do not fully tighten the screws as the tightening sequence is important.

6. Tighten the two top screws (shown in Figure 1-32) first. These two screws align the assembly.

Figure 1-32. Tighten the two rear screws first

7. Tighten the two screws shown in Figure 1-33 last.

LOADING AND ALIGNING
1 Make sure release lever is in locked position.
2 Insert label paper through slot; allow paper to auto-advance.
3 Tighten slack in roll.
4 Close door.
LOADING AND ALIGNING
1 Pull release lever toward you to unlock paper.
2 Fold and insert paper until fed through slot.
3 Make sure paper is centered within slot.
4 Push lever away from you to lock paper.
5 Close door.
CLEAR PAPER JAM
1 Tear paper.
2 Pull release lever toward you.
3 Open door.
4 Clear paper.
5 Close door.
6 Repeat load.

Figure 1-33. Put the two front screws into place

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8. Snap the printer access door into place in the opening on the door.

Figure 1-34. Snap the printer access door into place

Button up the Printer Bay

1. Power on the cabinet.
2. Insert the spindle into the label roll.

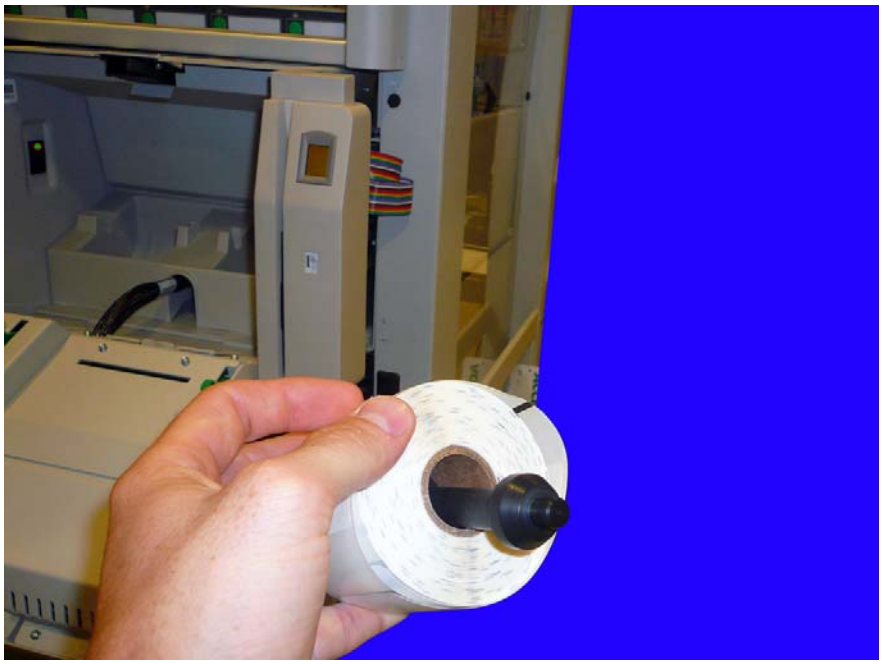

Figure 1-35. Insert the spindle into the roll of labels

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3. Place the label roll and spindle into the left-hand side of the paper roll holder.

Important: Ensure the labels are facing up.

LOADING AND ALIGNING
Make sure release lever is in locked position.
Insert label paper through slot; allow paper to auto-advance.
Tighten slack in roll.
Close door.
LOADING AND ALIGNING
Pull release lever toward you to unlock paper.
Fold and insert paper until fed through slot.
Make sure paper is centered

Figure 1-36. Ensure the labels are facing up as they come from the spool

4. Make sure the release lever is in locked position, pushed away from the user. Feed the labels into the slot of the label printer assembly.

INFORMATION
LOADING AND ALIGNING
LOADING AND ALIGNING
Pull release lever toward you to unlock paper.
Fold and insert paper until fed through slot.
Make sure paper is centered within slot.
Push lever away from you to lock paper.
Close door.
CLEAR PAPER JAM

Figure 1-37. Insert the labels into the label printer assembly

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5. Replace and reload the receipt printer paper.

Check the Configurations

1. Restart the console.
2. Close the console door. Tighten the slack on the paper rolls while closing the door.
3. Once the console has completely rebooted, ensure that the med label printer is configured properly.
   a. Press Admin menus.
   b. Press Omni Config.
   c. Press Printers category.
   d. Press Label Printer.
   e. Make sure Label Printer support is set to Yes.

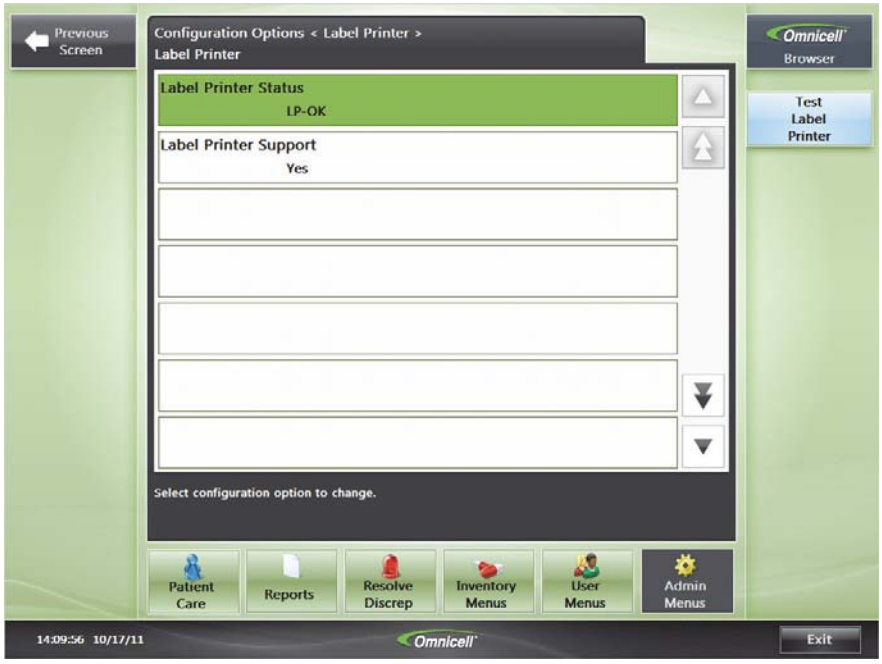

Figure 1-38. Ensure that label printer support is set to yes.

4. Test the printers to ensure they are working properly.

Note: If the test label is blank, retry the test.

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Install a Med Label Printer on an OmniRx

Tools List

The following tools are required to install the Med Label Printer:

- T10 Torx driver
- T8 Torx driver
- Xacto knife or cutters
- P5.5mm nut driver (7/32” also works)
- P6mm nut driver (1/4" also works)
- Flat head screwdriver

Prepare the Printer Bay

1. Perform a graceful shutdown of the console.
2. Unplug the power and network cables from the rear of the OmniRx.
3. Use key #2378 to unlock the lid on the OmniRx.

Figure 2-1. Unlock the lid

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4. Open the lid and secure it in place with the lock bracket (if available) or completely remove the lid and set it aside.
5. Unplug the power from the E-Box.

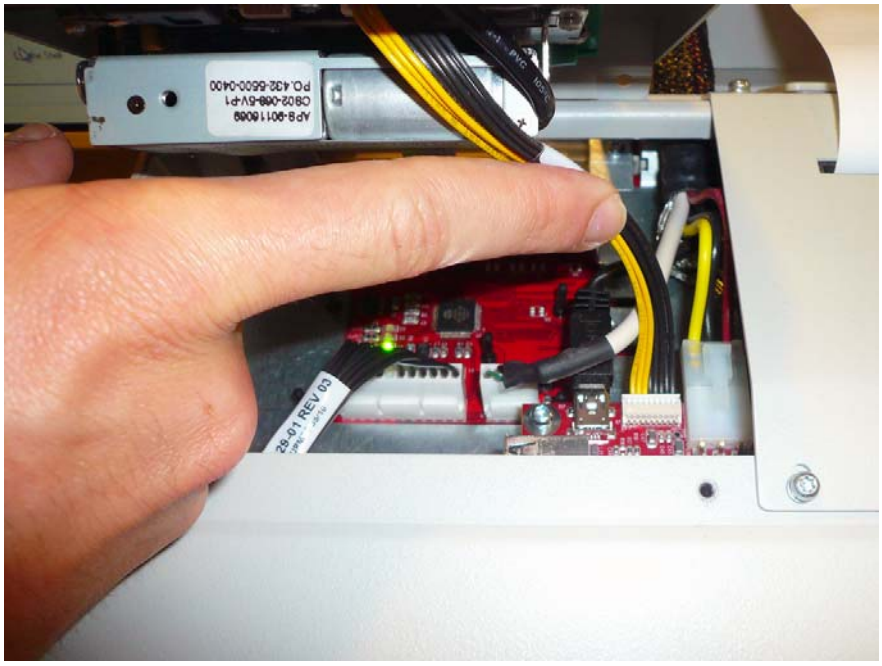

Figure 2-2. Unplug the power from the E-Box

6. Open the printer door.
7. Pull the platen lever up and pull the receipt paper from the printer.

Figure 2-3. Open the platen level

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8. Remove the paper from its holder.

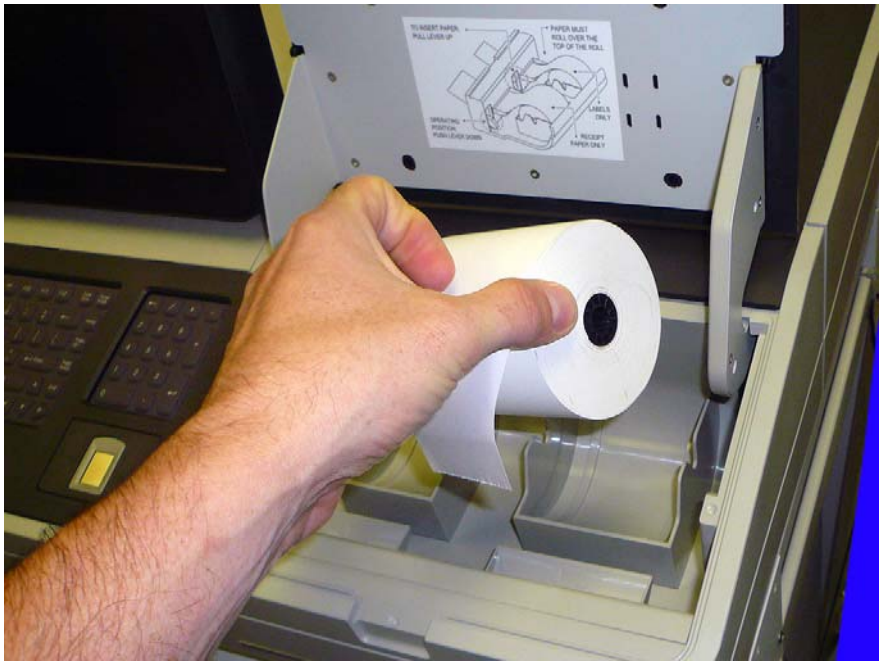

Figure 2-4. Remove the receipt printer paper

9. Remove the paper tray from the OmniRx.

Figure 2-5. Remove the paper tray

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Remove the Keyboard

In certain cases, the USB cable that attaches to the med label printer may already be installed. If the cable is installed and accessible, please proceed to "Prepare the Med Label Printer for Install" on page 2-11.

1. Remove the two inner screws on the under side of the OmniRx G4 console that secure the keyboard. Use a Torx T10 driver.

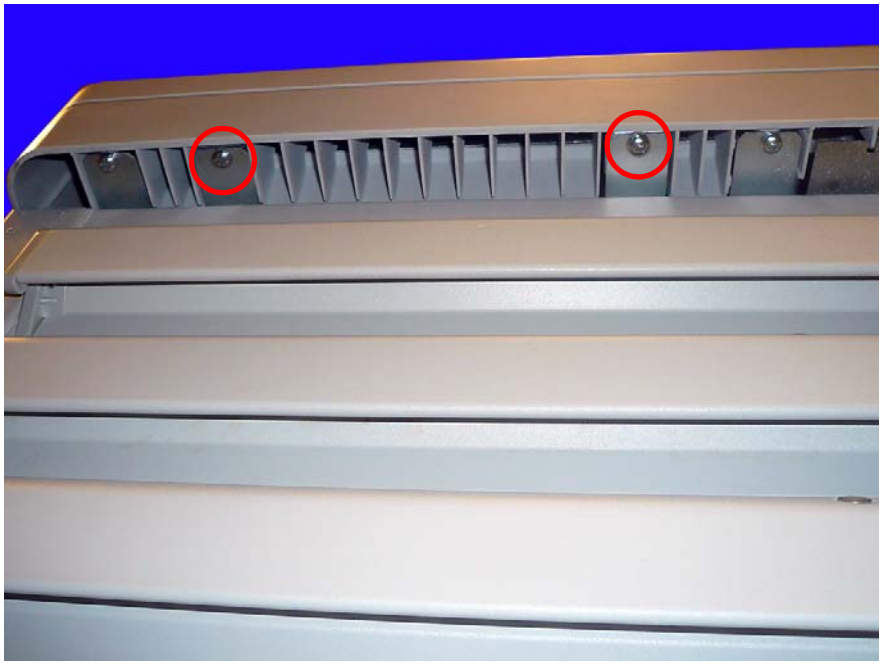

Figure 2-6. Remove the bottom two keyboard screws

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2. Remove the cosmetic screw cover above the keyboard on the OmniRx. Use a thin flat head screwdriver to lift the cover if necessary.

Figure 2-7. Remove the cosmetic screw cover

3. Remove the four screws on the keyboard tray that secure the keyboard to the console. Use a Torx T10 driver.

Figure 2-8. Remove the top four screws that secure the keyboard

4. Lift and remove the keyboard from the G4 console. Set the keyboard aside.

Figure 2-9. Lift and remove the keyboard

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Remove the Receipt Printer

Remove the Printer Bezel

1. Remove the three screws securing the printer bezel. Use a Torx T10 driver.

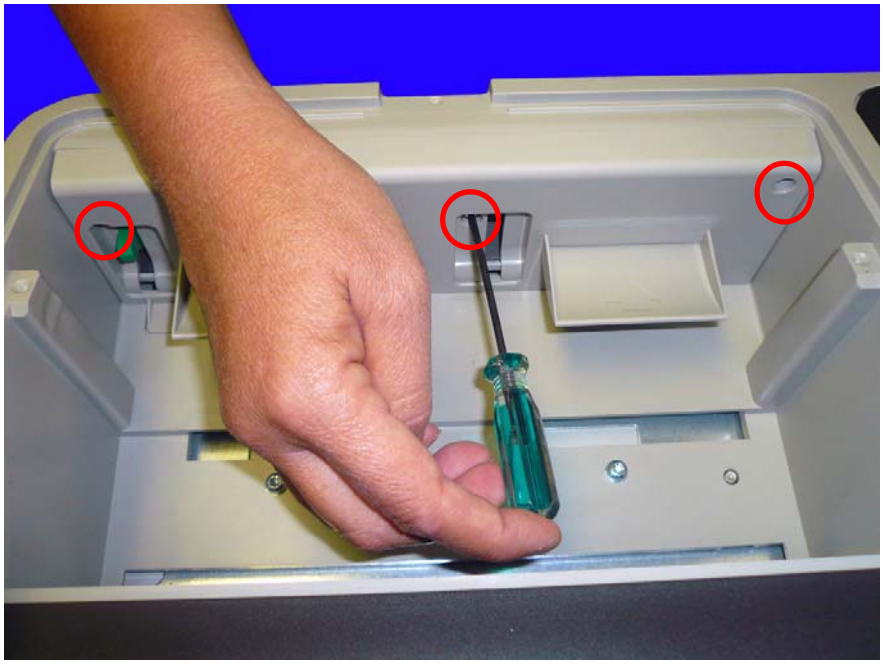

Figure 2-10. Remove the screws securing the printer bezel

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2. Pull the printer bezel from the printer bay wall. Clip the zip tie that secures the cables to the bezel and set it down inside the printer bay.

Note: Do not disconnect the receipt printer power cable or attempt to remove the receipt printer from the bezel yet.

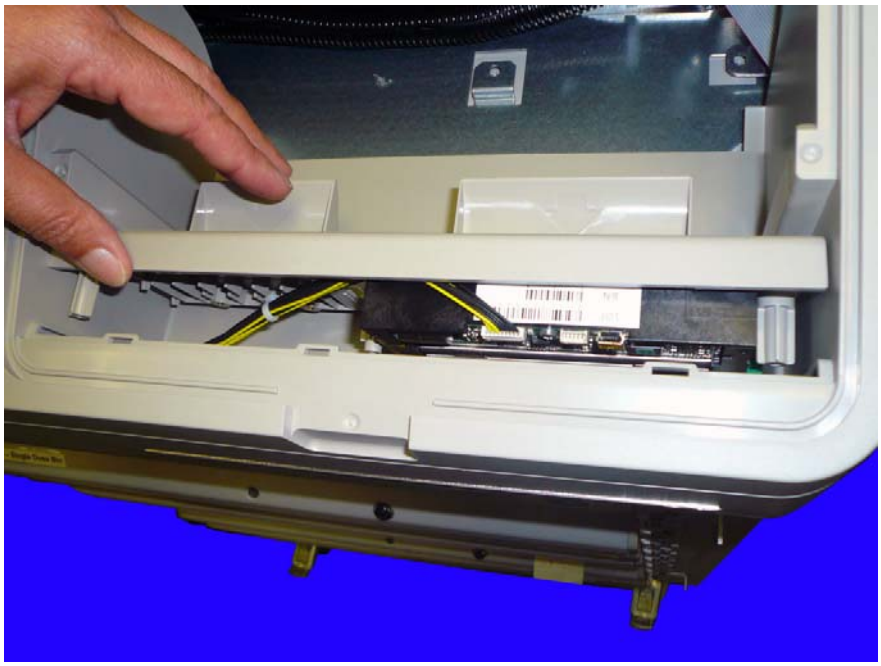

Figure 2-11. Pull the printer bezel from the printer bay wall

3. Remove the eight screws that secure the paper guides to the OmniRx frame.

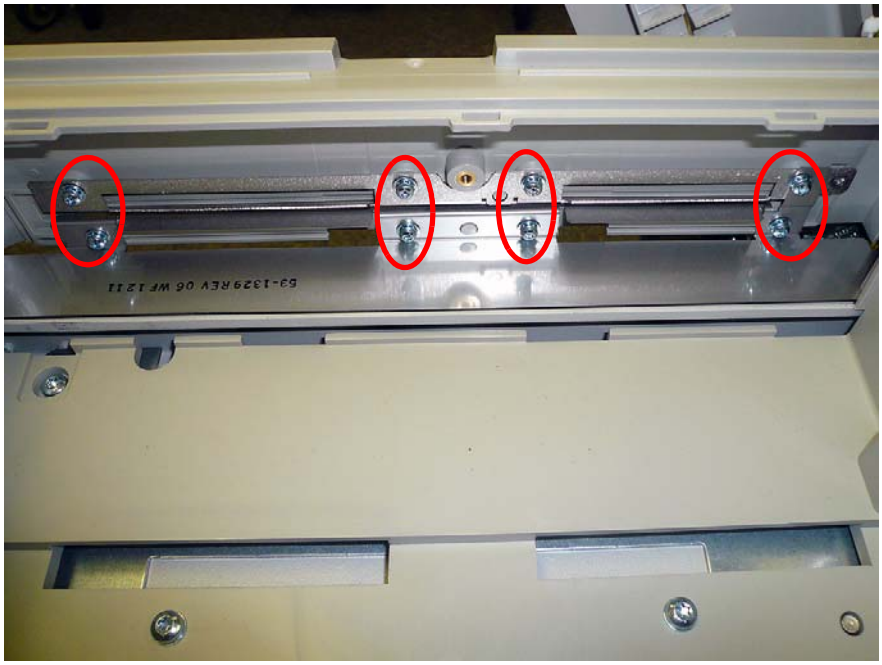

Figure 2-12. Remove the eight screws that secure the paper guides

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4. Remove the nut that secures the ground wire to the OmniRx frame. Use a 5.5mm or 7/32” nut driver.

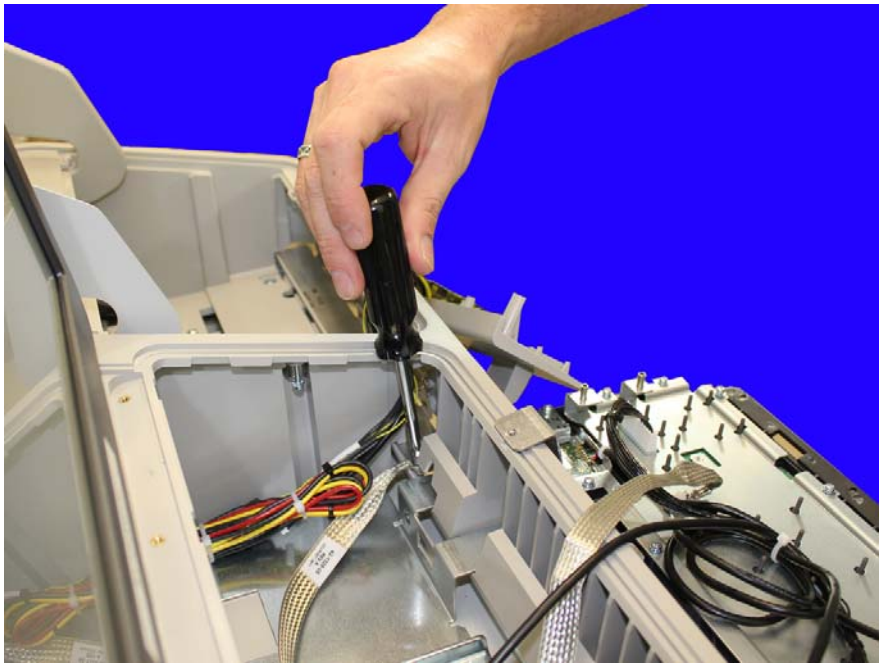

Figure 2-13. Remove the ground nut

5. Remove both paper alignment guides. The bottom guide may need to be bent to remove it from the frame. Neither guide will not be re-used so it is safe to bend them if necessary.

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Route the Printer USB Cable

1. Feed the new USB cable (42-1332) through the opening under the keyboard and route the cable toward the back of the E-Box enclosure.

Figure 2-14. Feed the USB cable through the opening

2. Plug the USB cable into the E-Box connection marked “USB 2 LABEL PTR” or “USB2” depending on the label on the side of the E-Box.

Figure 2-15. Plug the USB cable into the proper location on the E-Box

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3. Route the USB cable into the cable guides on the side of the E-Box.

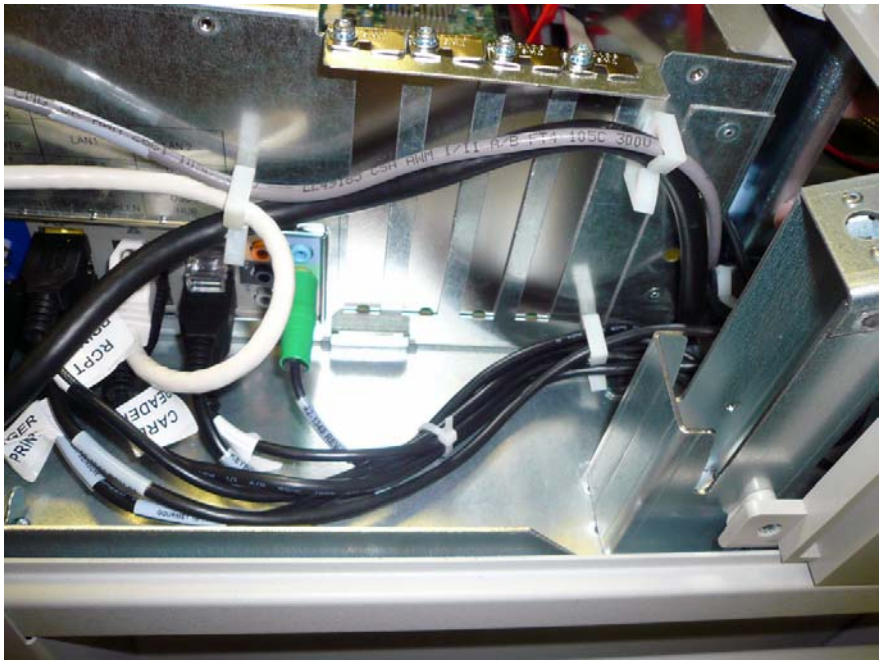

Figure 2-16. Route the USB cable using the cable guides on the side of the E-Box

Prepare the Med Label Printer for Install

Two new paper guides (Figure 2-17) replace the existing top and bottom paper guides. The guide on the left (54-2511) is the guide for the new med label printer; the guide on the right (54-2412) is for the existing receipt printer.

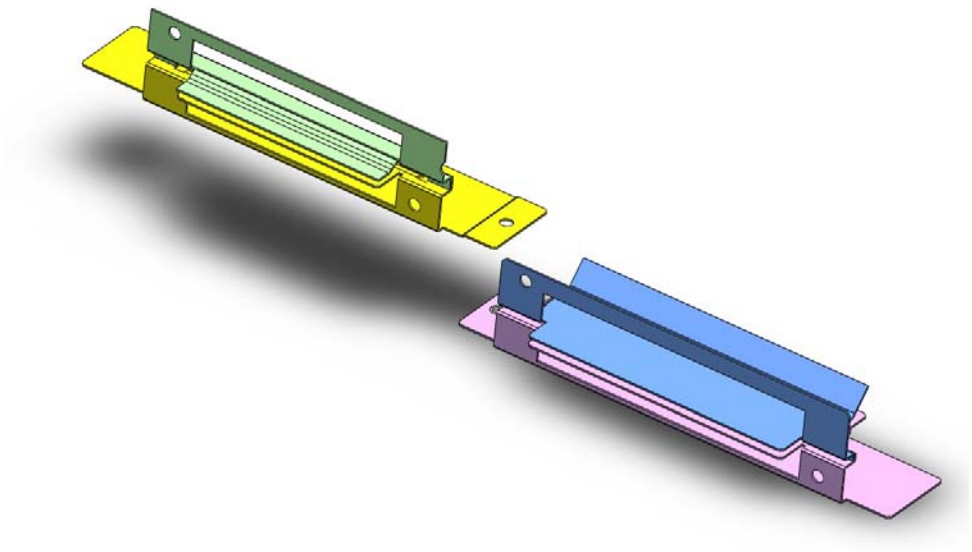

Figure 2-17. The new med label and receipt printer paper guides, respectively

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1. Place the med label and receipt printer guides into the opening on the OmniRx as shown in Figure 2-18.

2.

Note: If the guides are not easily installed into the opening on the front of the OmniRx, try inserting a corner first and then sliding the guide into place.

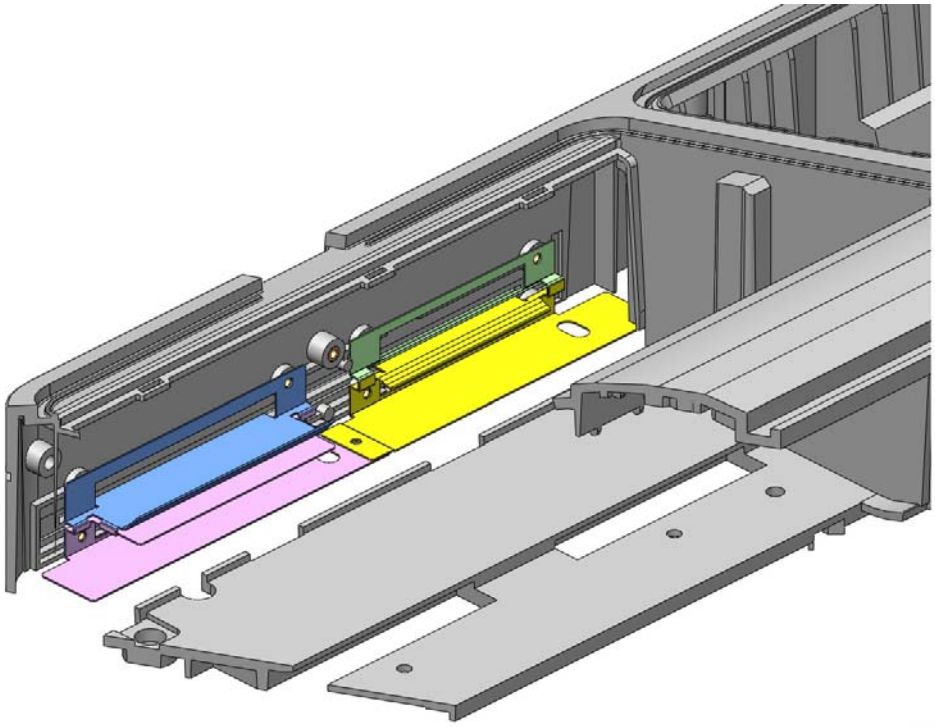

Figure 2-18. Place the med label printer guides in the opening

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3. Ensure that the paper guides are flush with the opening in the front of the OmniRx.

Figure 2-19. Ensure the paper guides are flush with the opening in the front of the OmniRx

4. Ensure that the grounding tab of the label guide sits on top of the grounding tab of the receipt guide. Insert a screw (94-8321-05) into the grounding tab to secure the guides to the frame.

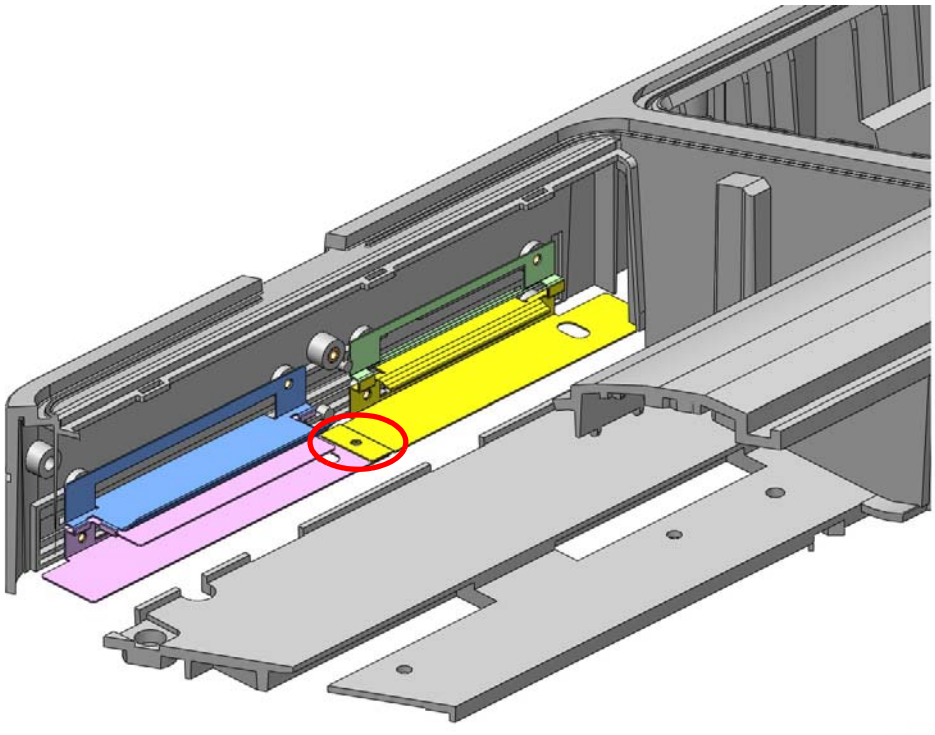

Figure 2-20. Ensure the grounding tabs are placed correctly.

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5. Attach the ground cable to the indicated screw (94-8321-05) and secure the screw to paper guide.

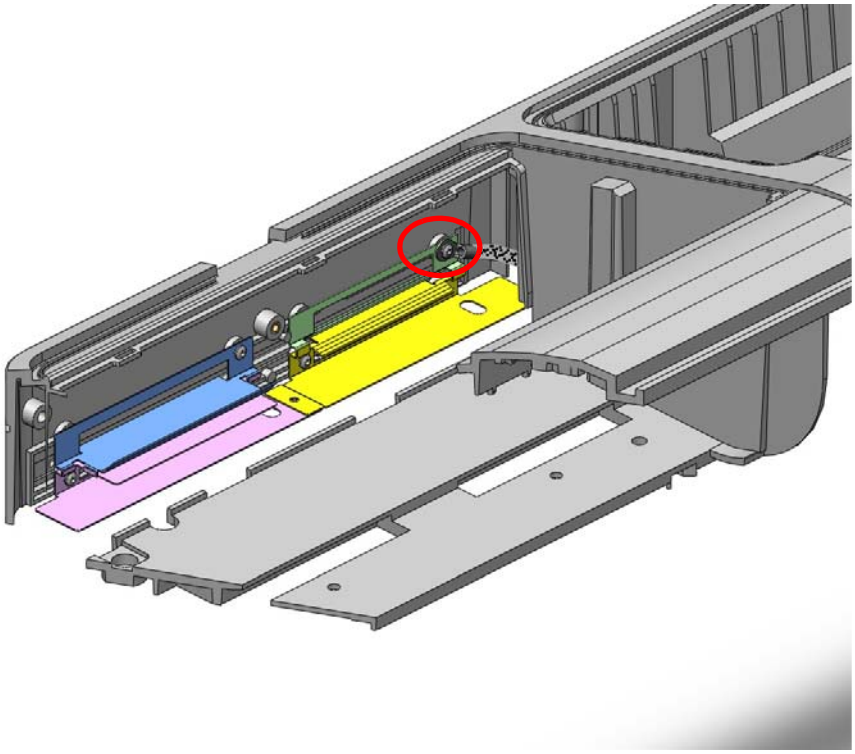

Figure 2-21. Attach the ground wire and the screw to the paper guide location shown

6. Secure the paper guides and the ground cable with the screws provided (94-8321-05). Do not tighten any screws until all the screws are installed.

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7. Ensure that the outer two tabs are completely broken off the front of the lid. If the tabs are present, use a pair of cutters or an X-Acto knife to completely remove the tabs.

Note: It is not necessary to remove the center tab.

Figure 2-22. Break off the two outside tabs

8. Ensure that the tabs are completely broken off.

Figure 2-23. Ensure the tab is completely broken off

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Install the Med label Printer

1. Add the three standoffs (94-6329) to the OmniRx frame. Use a P6mm or 1/4” nut driver.

Important: Do not over-tighten the standoffs.

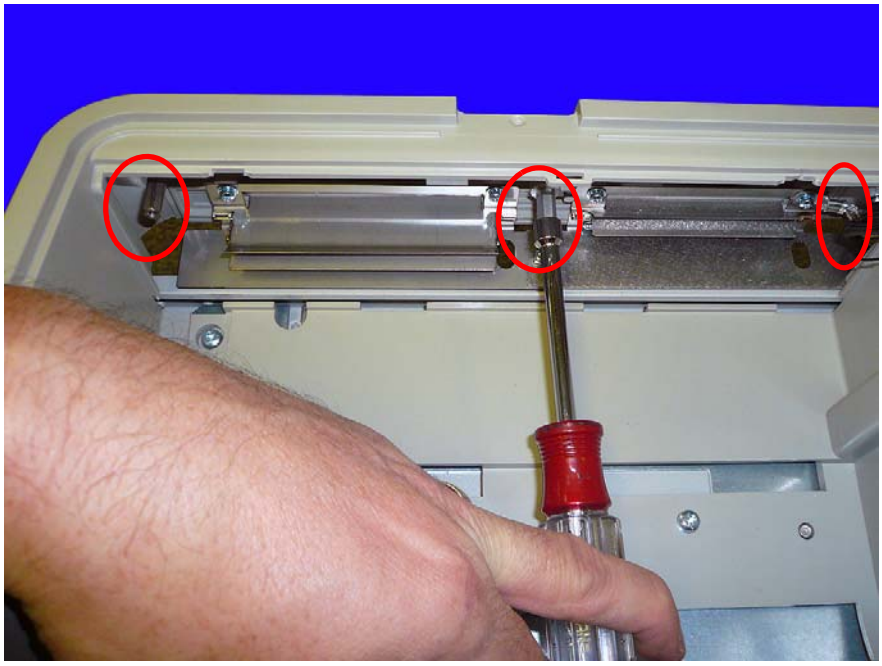

Figure 2-24. Add the standoffs

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2. Ensure that the lever scoop on the bezel is removed. If this scoop is present, the bezel will need to be replaced with a new one (57-1328).

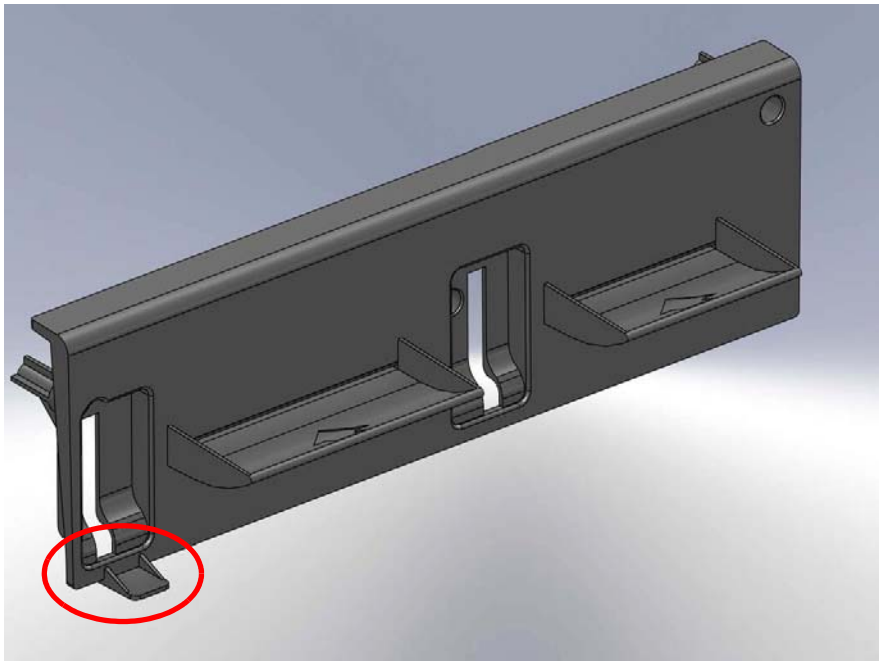

Figure 2-25. Ensure the lever scoop is removed

3. Remove the receipt printer and cables from the existing bezel.
4. Using the existing screws, install the receipt printer onto the new bezel, ensuring that all cables are routed behind the printer and are not pinched. Use a Torx T8 driver.

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5. Connect the power cable to the med label printer (70-7005).

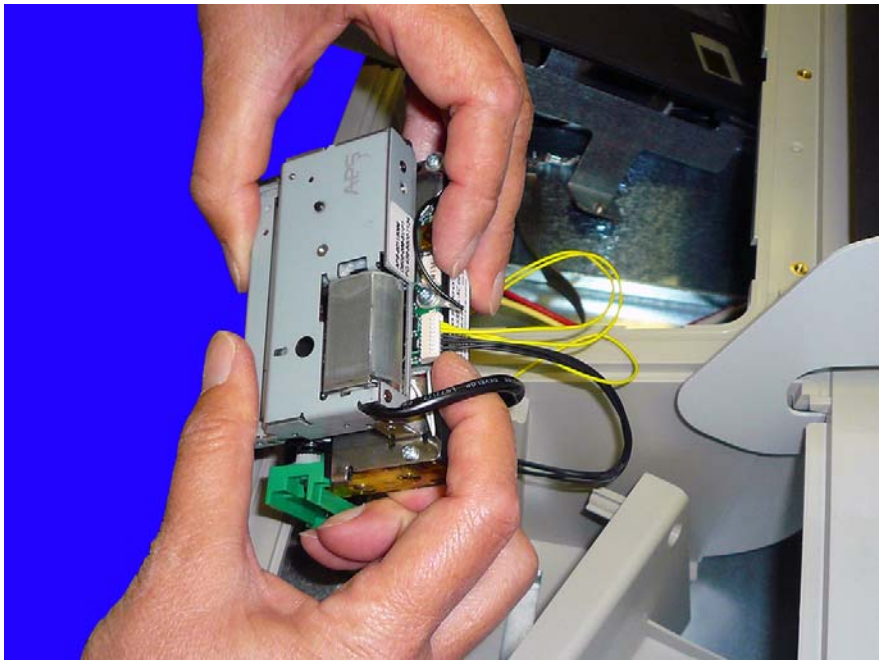

Figure 2-26. Connect the power cable to the med label printer

6. Connect the USB cable to the rear of the med label printer.

Important: The USB connection MUST be placed in the correct location on the printer. Use Figure 2-27 on page 2-18 for reference.

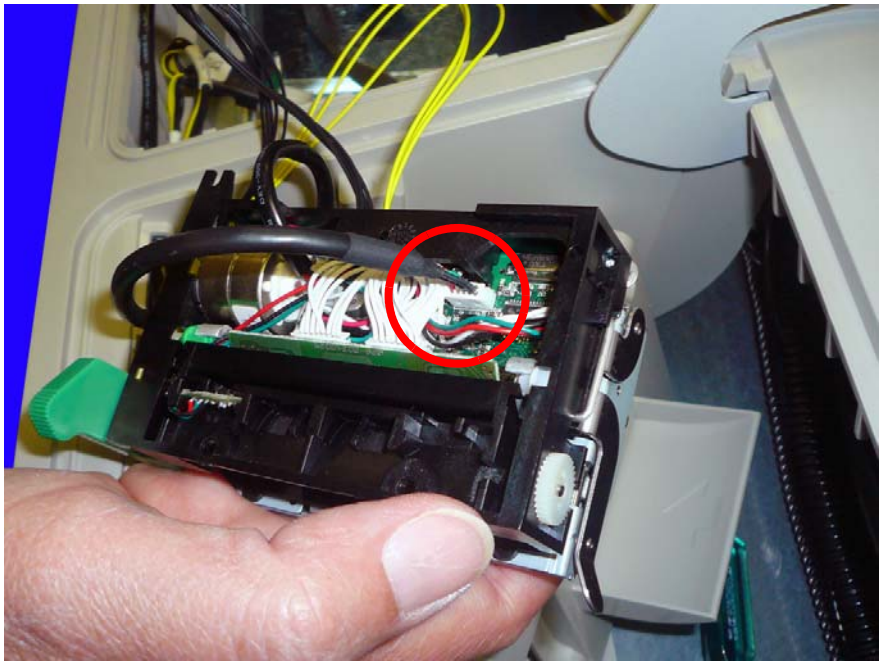

Figure 2-27. Connect the USB cable to the printer

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Mount the Med Label Printer onto the Printer Bezel

1. Route the receipt printer cables as shown in Figure 2-28 on page 2-19.

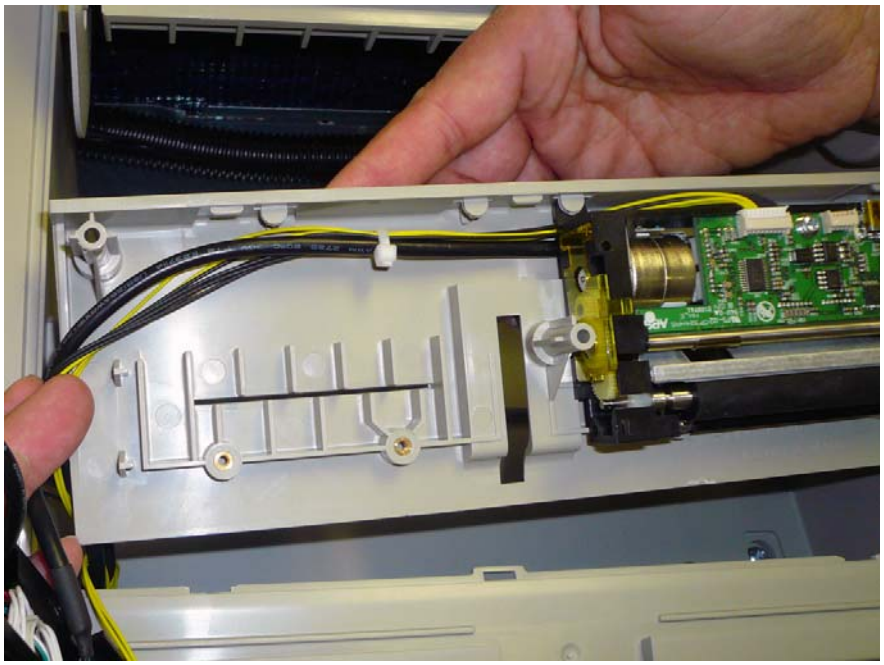

Figure 2-28. Move the receipt printer cables out of the way

2. Set the med label printer into place on the bezel.

Important: Ensure that the receipt printer cables are not pinched by the med label printer.

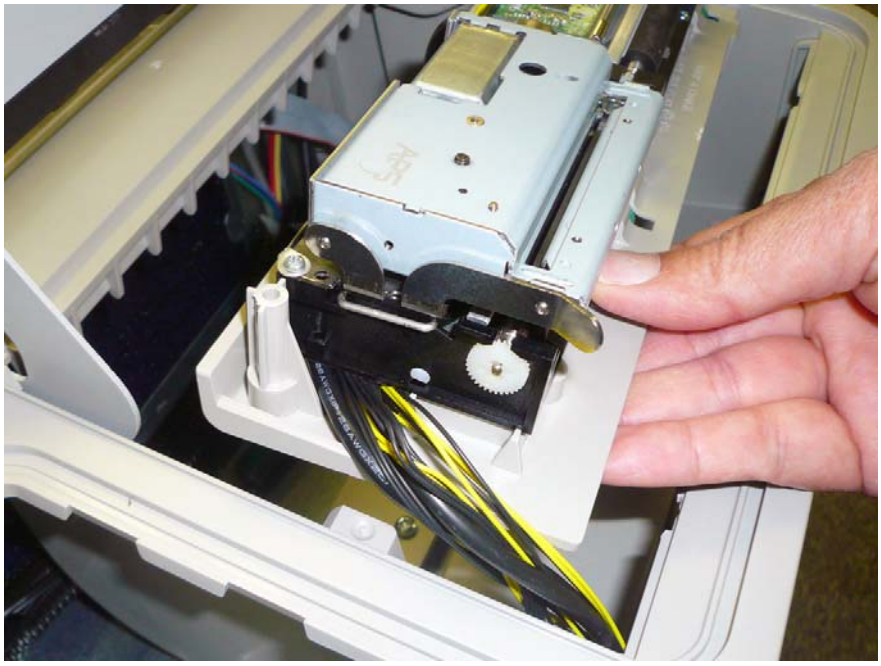

Figure 2-29. Set the med label printer into place

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3. To access the screw holes, pull the tab on the left side of the printer away from the printer and pull up on the cutter.

Figure 2-30. Open the med label printer rollers

4. Insert the screws (94-7411-06) to secure the med label printer to the printer bezel. Use a Torx T8 driver.

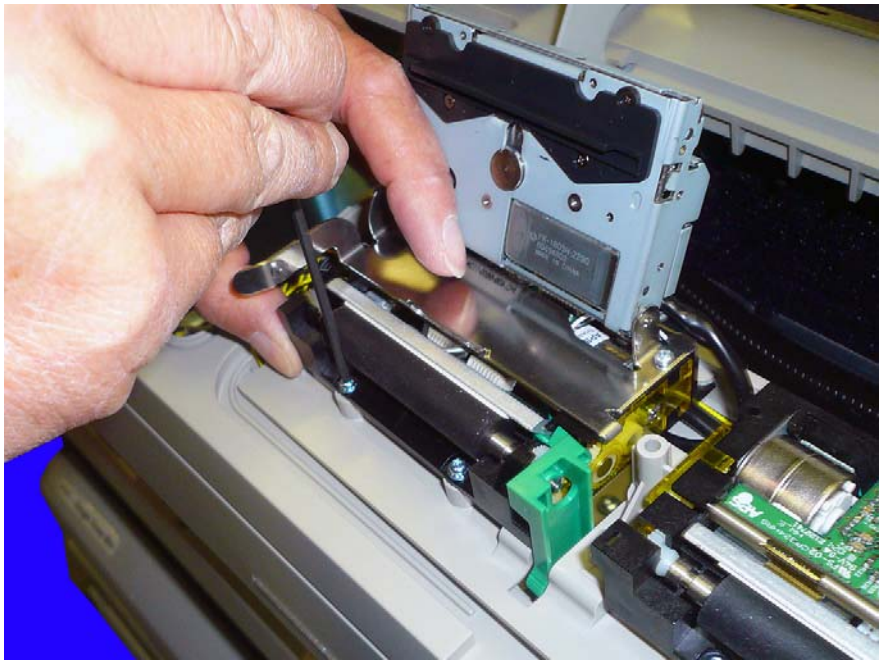

Figure 2-31. Secure the printer with the screws provided

5. Close the med label printer securely.

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Test the Med Label Printer

1. Plug the power cable into the E-Box.
2. Plug the power and network cables into the rear of the OmniRx.
3. Power on the OmniRx.
4. Once the system is powered up, check to ensure that the two green lights at the top of the med label printer and the receipt printer are lit up.
5. Restart the OmniRx.
6. Once the console has completely rebooted, ensure that the med label printer is configured properly.
   a. Press Admin menus.
   b. Press Omni Config.
   c. Press Printers category.
   d. Press Label Printer.
   e. Make sure Label Printer support is set to Yes.

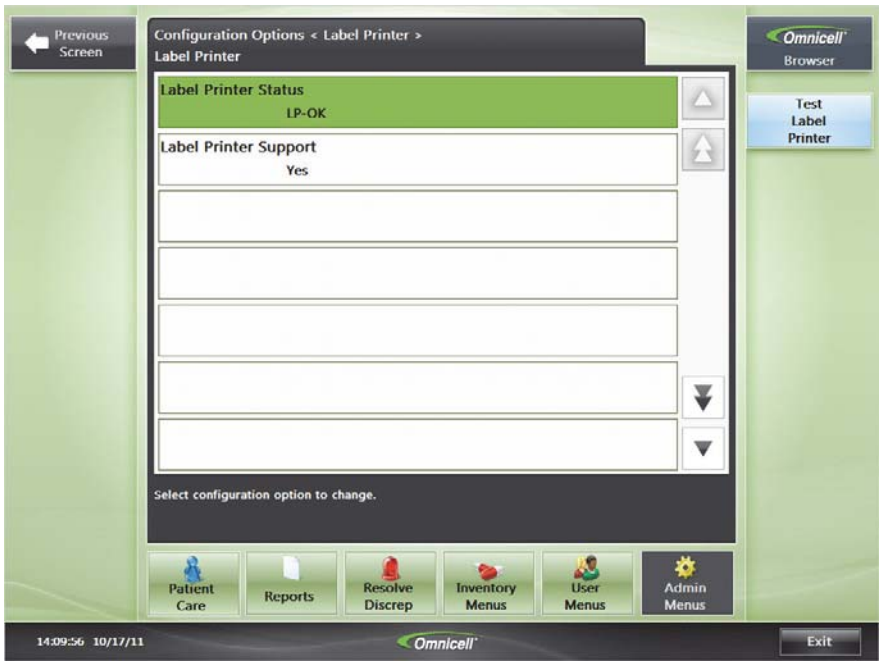

Figure 2-32. Ensure that the Label Printer Support is set to Yes

7. Test the printers to ensure they are working properly.

Note: If the test label is blank, retry the test.

Replace the Removed Pieces

1. Slide the printer bezel assembly into place. Ensure that no wires are sticking out or are being pinched.

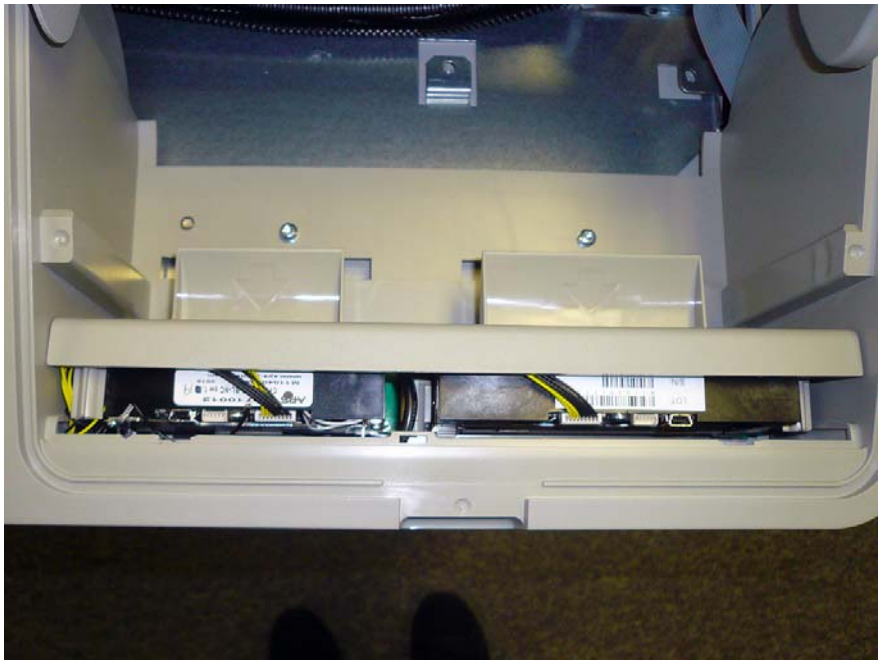

Figure 2-33. Ensure that all the printer wires are safely in place

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2. Add the three screws (94-8321-05) that secure the printer bezel assembly to the OmniRx frame so that the screws are slightly engaged. Do not tighten the screws. Use a Torx T10 driver.

Note: The screw on the far right of Figure 2-34 is the hardest to access. Install this screw first.

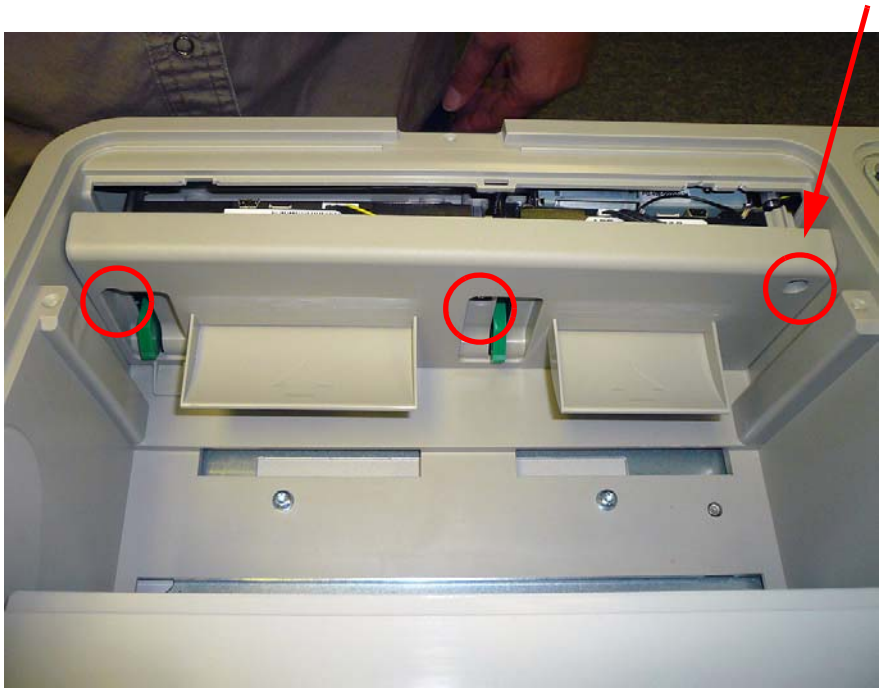

Figure 2-34. Add the three screws that secure the printer alignment guide to the OmniRx frame

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3. Slide the cover (54-8207) into place, ensuring that cables are not being pinched and top surfaces are flush.

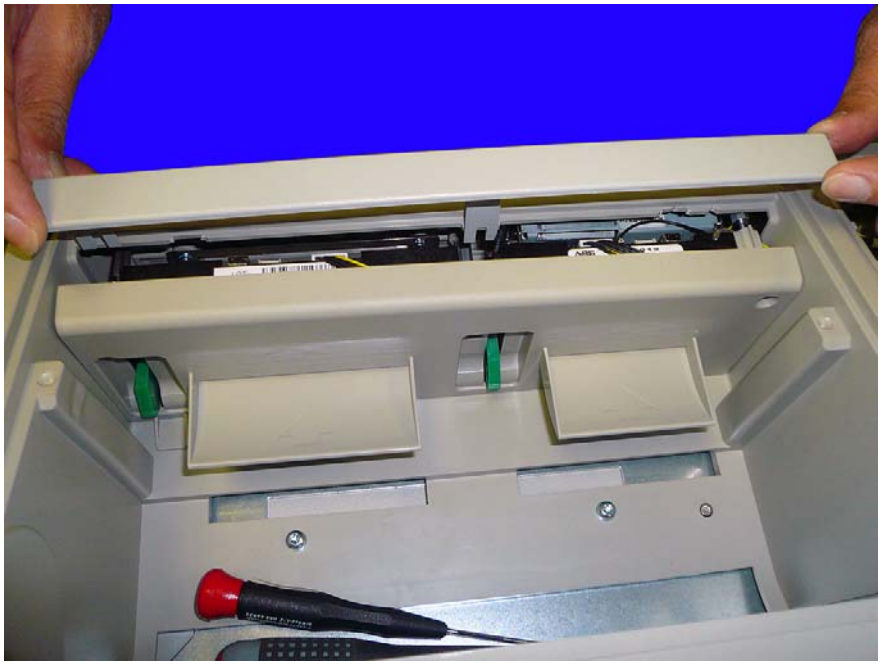

Figure 2-35. Add the cosmetic printer cover

4. Tighten the three screws.
5. Add in the new paper tray (57-1329) to the printer bay.

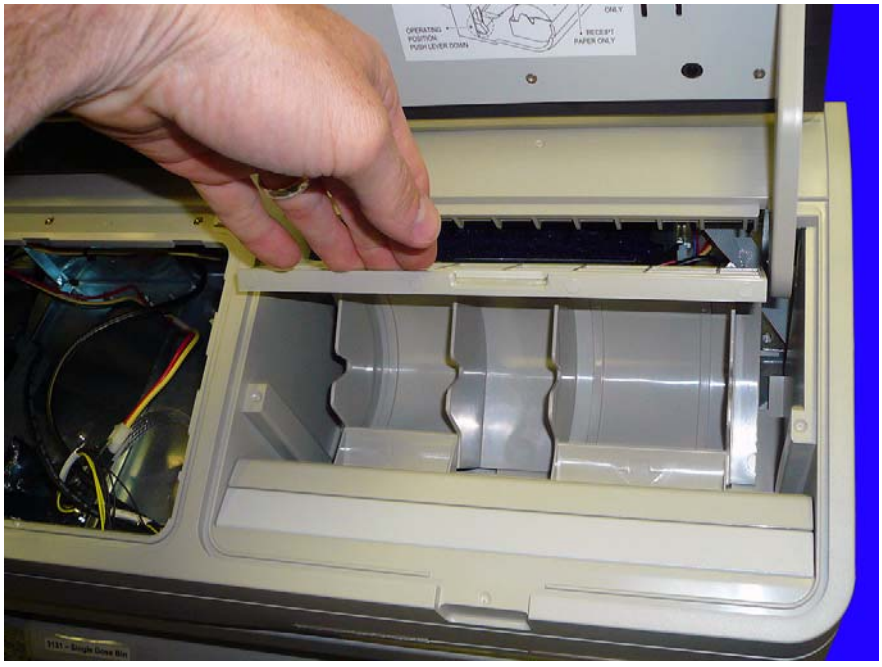

Figure 2-36. Add in the new printer tray

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6. Remove the adhesive liner from the label (65-1143) and install it to inside of the printer bay door (on top of the existing label).

Figure 2-37. Add the new label

7. Completely remove the tape from the med label roll (95-6078-40). Place the spindle (51-5150) into the med label roll and place the roll into the paper tray.
8. Place the receipt printer spindle (51-5151) into the receipt printer paper roll and place the receipt paper roll into the paper tray.
9. Ensure that both labels and receipt are coming from the top of the roll.

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10. Ensure the printer platen levers are down. Feed the labels into the printer until the printer grabs the label paper.

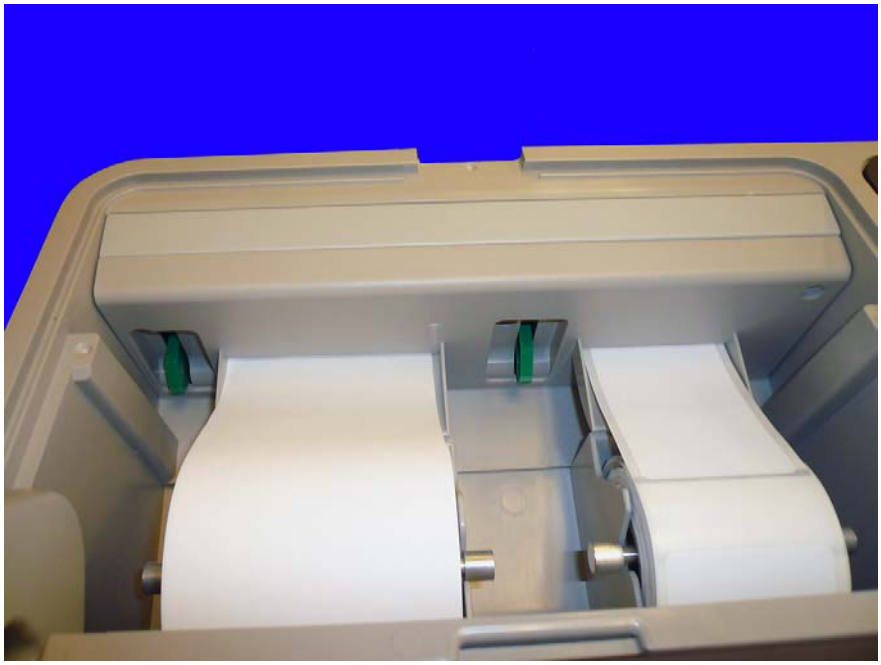

Figure 2-38. Add the paper rolls

11. Feed the receipt printer paper into the printer until the printer grabs the paper.

Test the Printer

1. Run a sample med label and receipt print to ensure the printers are working properly before closing the lid.
2. Close the printer bay lid.

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Replace OmniRx Pieces

Replace the G4 OmniRx Lid

1. Lift the OmniRx lid onto the back of the machine and set the lid down, ensuring that it rests on the console frame pegs.

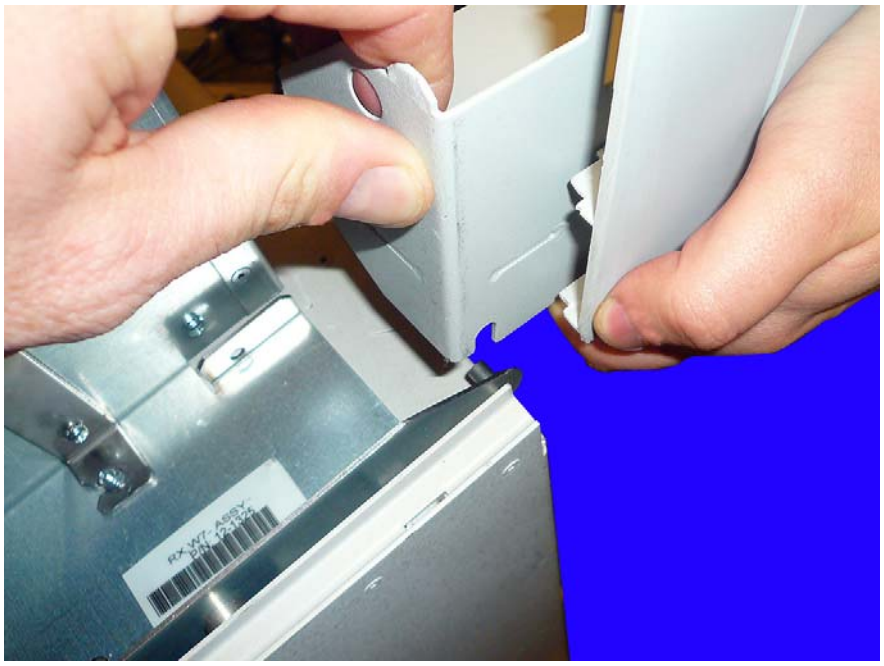

Figure 2-39. Place the lid onto the pegs on the frame of the OmniRx

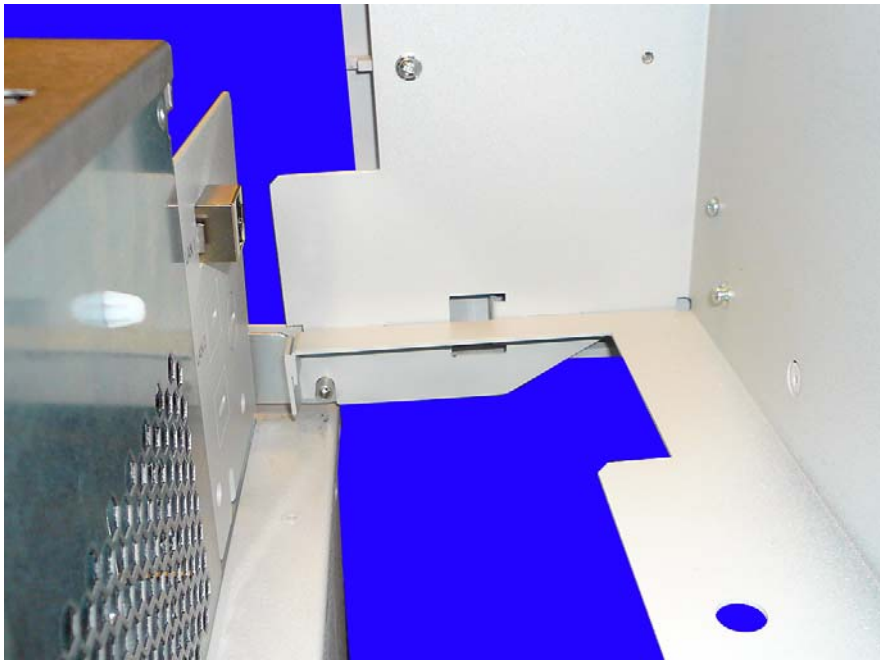

Figure 2-40. Set the lid down on the frame pegs

2. Set the lid down gently and use the #2378 cam lock key to lock the lid.

Figure 2-41. Close and lock the lid

Replace the Keyboard

1. Set the keyboard back into place and secure the top four screws that had previously been replaced. Use a Torx T10 driver.

Figure 2-42. Replace the keyboard

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2. Replace the cosmetic cover.

Figure 2-43. Replace the cosmetic cover

3. Replace the bottom two screws. Use a Torx T10 driver.

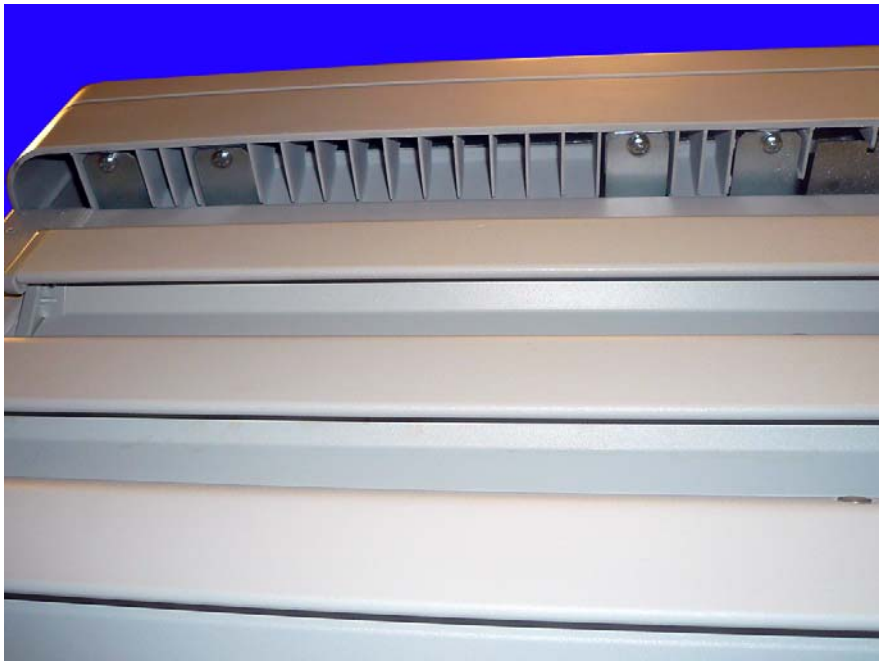

Figure 2-44. Replace the two screws

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List of Figures

Figure 1-1: Remove the filter access panel 1-2
Figure 1-2: Domestic printer bay with one set of mounting holes 1-2
Figure 1-3: Off-shore printer bay with two sets of mounting holes 1-3
Figure 1-4: Lift the front of the paper roll holder out from its mounting holes 1-3
Figure 1-5: Remove the paper roll holder from the printer bay 1-4
Figure 1-6: Remove the ground cable 1-4
Figure 1-7: Remove the backing from the adhesive tape on the new adapter plate 1-5
Figure 1-8: Place the adapter plate tabs into the mounting holes 1-5
Figure 1-9: Add the adapter plate 1-6
Figure 1-10: Mount the new paper roll holder into the adapter plate 1-7
Figure 1-11: Remove the printer access door. 1-8
Figure 1-12: Remove the four screws that secure the printer cover 1-8
Figure 1-13: Lift the receipt printer from the door 1-9
Figure 1-14: Set the receipt printer down on the printer access door 1-9
Figure 1-15: Remove the two screws that secure the middle printer bracket 1-10
Figure 1-16: Remove the middle bracket on the receipt printer 1-10
Figure 1-17: Add the new middle printer bracket 1-11
Figure 1-18: Remove the ground nut in the printer bay 1-11
Figure 1-19: Ground the printer to the console 1-12
Figure 1-20: Replace the printer 1-12
Figure 1-21: Replace the top two screws first 1-13
Figure 1-22: Replace the bottom screws last 1-13
Figure 1-23: Replace the printer access door 1-14
Figure 1-24: Remove the screws that secure the rear cover 1-14
Figure 1-25: Remove the rear cover 1-15
Figure 1-26: Disconnect the keyboard power 1-16
Figure 1-27: Set the upper paper guide into place 1-16
Figure 1-28: Secure the upper paper guide to the standoffs 1-17
Figure 1-29: Set the label printer assembly in place 1-18
Figure 1-30: Connect the power cable 1-18
Figure 1-31: Connect the USB cable 1-19
Figure 1-32: Tighten the two rear screws first 1-20
Figure 1-33: Put the two front screws into place 1-20
Figure 1-34: Snap the printer access door into place 1-21
Figure 1-35: Insert the spindle into the roll of labels 1-21
Figure 1-36: Ensure the labels are facing up as they come from the spool 1-22
Figure 1-37: Insert the labels into the label printer assembly 1-22
Figure 1-38: Ensure that label printer support is set to yes. 1-23
Figure 2-1: Unlock the lid 2-1
Figure 2-2: Unplug the power from the E-Box 2-2
Figure 2-3: Open the platen level 2-2
Figure 2-4: Remove the receipt printer paper 2-3
Figure 2-5: Remove the paper tray 2-3
Figure 2-6: Remove the bottom two keyboard screws 2-4

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Figure 2-7: Remove the cosmetic screw cover 2-5
Figure 2-8: Remove the top four screws that secure the keyboard 2-5
Figure 2-9: Lift and remove the keyboard 2-6
Figure 2-10: Remove the screws securing the printer bezel 2-7
Figure 2-11: Pull the printer bezel from the printer bay wall 2-8
Figure 2-12: Remove the eight screws that secure the paper guides 2-8
Figure 2-13: Remove the ground nut 2-9
Figure 2-14: Feed the USB cable through the opening 2-10
Figure 2-15: Plug the USB cable into the proper location on the E-Box 2-10
Figure 2-16: Route the USB cable using the cable guides on the side of the E-Box 2-11
Figure 2-17: The new med label and receipt printer paper guides, respectively 2-11
Figure 2-18: Place the med label printer guides in the opening 2-12
Figure 2-19: Ensure the paper guides are flush with the opening in the front of the OmniRx 2-13
Figure 2-20: Ensure the grounding tabs are placed correctly. 2-13
Figure 2-21: Attach the ground wire and the screw to the paper guide location shown . 2-14
Figure 2-22: Break off the two outside tabs 2-15
Figure 2-23: Ensure the tab is completely broken off 2-15
Figure 2-24: Add the standoffs 2-16
Figure 2-25: Ensure the lever scoop is removed 2-17
Figure 2-26: Connect the power cable to the med label printer 2-18
Figure 2-27: Connect the USB cable to the printer 2-18
Figure 2-28: Move the receipt printer cables out of the way 2-19
Figure 2-29: Set the med label printer into place 2-19
Figure 2-30: Open the med label printer rollers 2-20
Figure 2-31: Secure the printer with the screws provided 2-20
Figure 2-32: Ensure that the Label Printer Support is set to Yes 2-21
Figure 2-33: Ensure that all the printer wires are safely in place 2-22
Figure 2-34: Add the three screws that secure the printer alignment guide to the OmniRx frame 2-23
Figure 2-35: Add the cosmetic printer cover 2-24
Figure 2-36: Add in the new printer tray 2-24
Figure 2-37: Add the new label 2-25
Figure 2-38: Add the paper rolls 2-26
Figure 2-39: Place the lid onto the pegs on the frame of the OmniRx 2-27
Figure 2-40: Set the lid down on the frame pegs 2-27
Figure 2-41: Close and lock the lid 2-28
Figure 2-42: Replace the keyboard 2-28
Figure 2-43: Replace the cosmetic cover 2-29
Figure 2-44: Replace the two screws 2-29

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